recompleted to

WSTC as

Proposed in Sundry

received 1-21-92

and approved

1-24-92 ptg.c.12



UNI	STATES	Teverse at	de	
DEPARTMENT	OF THE INTER	RIOR		5. LEASE DESIGNATION AND SERIAL NO.
GEOLO	043356			
APPLICATION FOR PERMIT T	O DRILL DEEP	EN OR PILIG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	O DIVICE, DELL	1		NA -
IA. TYPE OF WORK DRILL X	DEEPEN 🗌	PLUG BAC	CK 🗌	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	•	/ GG/Pro		NA
OIL CAS WELL OTHER		ONE CONTROL	% Q .	S. FARM OR LEASE NAME
2. NAME OF OPERATOR		4/10	Join)	<u>Federal</u>
Cotton Petroleum Corporat	ion	000		9. WELL NO.
3. ADDRESS OF OPERATOR		321	408	1-22
3. ADDRESS OF OPERATOR. 717 17th Street, Suite 22 4. LOCATION OF WELL (Report location clearly and At surface 1280' FWL & 1980' FSL- At proposed prod. zone	200, Denver, Cou	Voration 80202		10. FIELD AND POOL, OR WILDCAT
 LOCATION OF WELL (Report location clearly and At surface 	in accordance with any	State Tennine Menter ()	- .	Undesignated Wildrat
1280' FWL & 1980' FSL-	10.04	MINIA	٠.	11. SEC., T., R., M., OR BLK AND SURVEY OR AREA
At proposed prod. zone	W W W	"″ V Ģ	. !	C/NWSW Sec.22-T10S-R17E
14. DISTANCE IN MILES AND DIRECTION FROM NEAR	h h	p.		12. COUNTY OR PARISH 13. STATE
		-		Duchesne Utah
25 miles SE of Myton 10. DISTANCE FROM PROPOSED*	1 16. NO	O. OF ACRES IN LEASE	17. NO. C	OF ACRES ASSIGNED:
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.	1980'	2240	TOTI	640
(Also to nearest drlg. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION®		ROPOSED DEPTH	20. BOTA	RY OR CABLE TOOLS
TO REAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	NA	9700'		Rotary
21. ELEVATIONS (Show whether DF, RT, GR; etc.)		-Mo		22. APPROX. DATE WORK WILL START*
5850' GR				8/25/81
23. Р	ROPOSED CASING ANI	O CEMENTING PROGRA	.м	<u> 가득기 회사의 실립함 (1997</u> 년)
SIZE OF HOLE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
17-1/2" 13-3/8"	48#	200!		x, circ to surface
12-1/4" 8-5/8"	24#	10001	330	
7-7/8" 4-1/2"	11.6 & 10.5#	9700 '	2000	sxs in 2 stages
.	, ,	•	·	ට ක්රී වේ. ඉදිරි ලිසුම් ලකු විරාද
Drill 9700' Mesaverde test.	Drill 17-1/2" \$	surface hole to	200' w	ith native water to clean
hole, set 200' of 13-3/8" sur	face casing and	i cement to surf	ace.	WOC 12 hrs. Pressure
test casing and BOP to 70% of	casing yield,	1211 psig, befo	ore dri	lling out cement. lest
BOP operation daily and recor	d. Drill 12-1/	'4" intermediate	hole	to 1000', with native
water to clean hole, set 1000)' of 8-5/8" inc	lermediate casir	ig, and	cement with 330 sxs of
cement (calc on 800' of fill)	. WOC 12 hrs.	Drill out with	1./-//8	" bit to 9/00', using
brine water from 1000' to 450	10', and a polym	mer brine water	from 4	500 to 9/00 1 Mud Wt Will
be 8.5 to 9.5 ppg. Evaluate w		analysis and ele	ctric	Jogs. Run 4-1/2 Casing II
a commercial well is expected			~	
Cotton Petroleum Corporation	is also request	ting by this app	licati	on, right-of-way to use
the existing road shown on At	tachment 2. Th	is Row extends	Trom's	ubject well to where the
county road commences in Sect	.10n 3.	aine athandand 1	002+10	Cotton Potroloum
Non-standard location request	ed due to ravir	ie at Standard i	rtion 2	22 The American
Corporation has minerals under above space describe proposed program: If p	proposal is to deepen or p	v qualter of Set dug back, give data on pr	esent produ	uctive zone and proposed new productive
one. If proposal is to drill or deepen directional	lly, give pertinent data o	n subsurface locations an	d measured -	l and true vertical depths. Give blowout
preventer program, if any.			- :	1 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TITLE Division Production Manager

(This space for Federal or State office use)

APPROVED BY THE STATE OF UTAH DIVISION OF APPROVAL OIL, GAS, AND MINING

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

NOTE: Please expedite this approval as lease expiration is August 31, 1981.

Identification	CER/EA	No. <u>555-81</u>	
----------------	--------	-------------------	--

United States Department of the Interior Geological Survey 2000 Administration Bldg. 1745 West 1700 South Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICA	TION					
Operator Cotton	Petroleum Corporation					
Project Type <u>Gas</u>						
Project Location _	1280' FWL 1980' FSL	Section 22, T. 10S, R. 17E				
Well No. 1-22	I	ease No. <u>U-43356</u>				
Date Project Submi	tted <u>July 20, 1981</u>	· ·				
FIELD INSPECTION	Date July 30, 198					
Field Inspection Participants	Greg Darlington	USGS, Vernal				
	Cory Bodman	BLM, Vernal				
	Dusty Mecham	Cotton Petroleum				
	Doug Wood	Cotton Petroleum				
	Leonard Heeney	Ross Construction				
Joe Conlon Construction						
Related Environmen	ital Documents:	it Resources Analysis, Duchesne Planning				
- · m1 •	Troud d not in	nce with the categorical exclusion review volve any significant effects and, there- o the categorical exclusions.				
August 4, 19	781 cepared	Degrey Darlington Environmental Scientist				
I concur AUG 0	5 1981	District Supervisor E.W. GUYNN DISTRICT ENGIN				

Typing Out ____

Typing In <u>7-31-81</u>.

PROPOSED ACTIONS:

Cotton Petroleum Corporation plans to drill the 1-22 well, a 9700' gas test of various formations. A new access road of about .8 miles length will be required. At the onsite this route was revised to improve some grades and allow for better crossings of existing washes. An area of operations about 290' by 370' is requested for this location. The 100' x 200' proposed reserve pit would be included in the Area of Operations. The south corner of the pad would be designed to accommodate an entrance ramp onto the pad.

RECOMMENDED APPROVAL CONDITIONS:

The operator agrees to accept and adhere to the following conditions in addition to the plans outlined in the APD:

- 1. BLM Stipulations
- 2. Lease Stipulations
- 3. Provide adequate logs for the identification of other minerals as requested in the Mineral Evaluation Report and Mining Report.

North View Cotton 1-22 = 15 = 17

7/30

FIELD NOTES SHEET

Date of Field Inspection: July 30,1981
Well No.: 1-22
Lease No.: U-043356
Approve Location:
. A 1 C: . I
Acres Nead Williams
Modify Location or Access Road: Onite of recession of Access Road: Onite of recession of Access Road: On the order of Access Road: On the Instruction of Pits 100x220 - 100x200 and Slap - 10 day. Relocate Topsoil. Roundoff South Corner to allow an entrance ramp to the location
Slight Redimension of Pits 100x220 - 100x200 and blog - 10 day, Relocate
Topsoil. Roundoff South Corner to allow an entrance ramp to the location
Evaluation of Criteria for Categorical Exclusion
 Public Health and Safety Unique Characteristics Environmentally Controversial Items Uncertain and Unknown Risks Establishes Precedents Comulatively Significant National Register Historic Places Endangered/Threatened Species Violate Federal, State, Local, or Tribal Laws
If this project is not eligible for Categorical Exclusion circle the numbers of
the above criteria requiring the preparation of an EA.
Comments and special conditions of approval discussed at onsite: (include local topography) 200' Stip: lation for Topography - No separate assignments NW/4 SW/4 and NE/4 SV/4. Intermediate Casing to 1000' left TD 9700'. Vait plan requires August 31 or some start. Cotton has bought the lease, hence the D/o and Boneling will be difficult from that indicated on the checklist.
a affect fan is

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

	Fodor	al/State Ag	o a no v	Local and private		Other			
Criteria 6 DM 2.3.A	Chere- spondence (Mace)	Fhone check (date)	Meeting (date)	corre- spondence (date)	Previous NEPA	studies and reports	Staff expertise	Onsite inspection (date)	Other
blic health d safety							1,2,4,6	7-30 - 1981	
nique charac- eristics							1,2,4,6		
nviromentall y ontroversial			æ				1,2,4,6		
Incertain and Inchmown risks							1,2,4,6		
Establishes precedents		·					1,2,4,6		
Cunulatively significant							1,2,4,6		
National Register historic places							1,6		
Endangered/ threatened species							1,6		
Violate Federal, State, local, tribal low							1,2,4,6		

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

- 1. Surface Management Agency Input
- 2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
- Lease Stipulations/Terms
- 4. Application Permit to Drill
- 5. Operator Correspondence
- 6. Field Observation
- 7. Private Rehabilitation Agreement
- 8. USGS conditions of approval.



United States Department of the Interior

T & R U-802

VERNAL DISTRICT OFFICE 170 South 500 East Vernal, Utah 84078

July 31, 1981

Ed Guynn, District Engineer USGS, Conservation Division 2000 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104

Re: Cotton Petroleum
Well #1-22 Sec 22,
T10S, R17E U-43356
Duchesne County, Utah

Dear Sir:

A joint field examination was made on July 30, 1981, of the above referenced well site location and proposed access road. We feel that the surface use and operating plans are adequate with the following revisions and stipulations:

- 1. Construction and maintenance of roads, rehabilitation of disturbed areas and construction of pipeline routes, shall be in accordance with surface use standards as set forth in the brochure, "Surface Operating Standards for Oil and Gas Exploration and Development."
- 2. Traveling off cess road right-of-ways will not be allowed. The maximum width of access pads (both existing and planned) will be 30 feet total disturbed area. Roads will be crowned and properly maintained. Turn-outs will not be required.
- 3. The BLM will be notified at least 24 hours prior to any construction.
- 4. Burn pits will not be constructed. There will be no burning or burying of trash or garbage at the well sites. Refuse must be contained in trash cages and hauled to an approved disposal site.
- 5. A wire mesh or net type of fence, topped with at least one strand of barbed wire, will be used around the reserve pits.
- 6. The BLM will be contacted at least 24 hours prior to any rehabilitation activities. The operator may be informed of any additional needed seeding and restoration requirements.



Continued

- 7. All permanent (on site for six (6) months or longer) structures constructed or installed shall be painted a flat (non-reflective) earth tone color to match Themec 23-08351 Mesa Brown Enduratione, or an approved equal. Facilities that are required to comply with O.S.H.A. (Occupational Safety and Health Act) standards are exculded.
- 8. It was agreed to by all parties present that the applied for dimensions are adequate to handle all drilling and fracturing operations.
- 9. The reserve pit dimensions were changed from 6 feet by 220 feet to 10 feet by 100 feet by 200 feet.
- 10. The top 4-6 inches of topsoil will be stockpiled as addressed in the applicants A.P.D.
- 11. The access route was changed to reduce the amount of times the route crosses the major drainage in the area.

A cultural resource clearance was conducted by the Powers Elevation Company. No cultural resources were found.

The proposed activities do not jeopardize listed, threatened or endangered flora/fauna or their habitats.

The BLM representative will be Gary Slagel, 789-1362.

Sincerely,

Byron Tolman

Acting Area Manager

Diamond Mountain Resource Area

cc:

USGS, Vernal

U. S. GLOLOGICAL SURVEY - CONSERVATION DIVISION
FROM: : DISTRICT GEOLOGIST, E, SALT LAKE CITY, UTAH
TO : DISTRICT ENGINEER, ONG, SALT LAKE CITY, UTAH
SUBJECT: APD MINURAL EVALUATION REPORT LEASE NO. 433.56
OPERATOR: Cotto. Sest- 10 Com well no. 1-22
LOCATION: \\ \text{100} \text{\text{2}} \ \text{Sult sec. 22, T. 105, R. 17E, \(\text{LM} \)
Duches me county, 1/tah
1. Stratigraphy: (1), - Surface
Grand River - 285
Main 7-1850 Nacard 5025
10 maris 9200
2. Fresh Water:
People : be Cons Mat geny Zone - nonger agnifer.
3. Leasable Minecals:
07/ Sha (0~1850 - 2000
/ Additional Taxa Nacdada
4. Additional Logs Needed:
and fire
5. Potential Geologic Hazards: Nove Expended
J. Totalital ocologic hazards. Nove of
6. References and Remarks:

Date: 8 - 10 - 81

** FILE NOTATIONS **

DATE: aug. 13, 1981	
OPERATOR: Cotton Petroleum	corpi
WELL NO: Federal #1-22	
Location: Sec. <u>22</u> T. <u>105</u> R.	178 County: Duchesno
File Prepared: [1] En	tered on N.I.D:
	mpletion Sheet:
API Number 43-	0/3-30595
CHECKED BY:	
Petroleum Engineer: M.S. Mu	nder 8/18/81
Director:	
Administrative Aide: as per octor gas wills, aides topo	Rule C-3(c), of on any other
- July Cope	
APPROVAL LETTER:	
Bond Required:	Survey Plat Required:
Order No.	0.K. Rule C-3
Rule C-3(c), Topographic Exception - within a 660' radius of	company owns or controls acreage proposed site
Lease Designation [Jed]	Plotted on Map.
Approval Letter W	Iritten
Hot Line P.I.	

Form 9-331 C (May 1963)

Dong Wood Peter Wach Unit

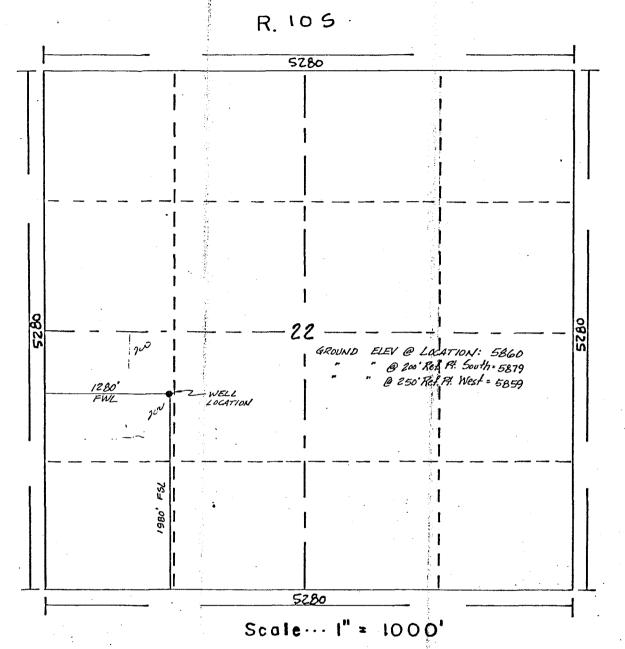
SUBMIT IN TH (Other instructions on reverse side) Just mest to Orig appli.

UNITED STATES
DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL NO.

,	GEC	DLOGICAL SU	IRVEY			U -43356		
APPLICATION	FOR PERMI	IT TO DRIL	L, DEEPI	N, OR PLUG	BACK	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME	
1a. TYPE OF WORK	LL X	DEEPE		PLUG BA		NA 7. UNIT AGREEMENT 1	NAME	
b. TYPE OF WELL						NA		
	ELL OTHER	R		NGLE MULT ONE ZONE	IPLE	8. FARM OR LEASE NA	tes Wash 72	
2. NAME OF OPERATOR						9. WELL NO.	is waste fre	
	roleum Corpo	ration		<u> </u>		1 .		
3. ADDRESS OF OPERATOR	thank Cuite	. 2200 Don	van Cal	onado 80202		1-22	OR WILDCAT	
4. LOCATION OF WELL (R	enort location clearly	and in accordance	e with anses	orado 80202		Undesignated		
At surface			17 C	IIIS WIL		11. SEC., T., R., M., OB AND SURVEY OR A		
	& 1980' FSL	/Ď	11900			1	AND SURVEY OR AREA	
At proposed prod. zon	e	\\	K. A.	4 17 4001		C/NWSW Sec.	22-T10S-R17E	
14. DISTANCE IN MILES	AND DIRECTION FROM	NEABEST TOWN	R POST OFFICE]. / 1361 		12. COUNTY OR PARISE	1 13. STATE	
25 miles S	E of Myton	-14. - 14.	• • •			Duchesne	Utah	
15. DISTANCE FROM PROPO LOCATION TO NEAREST	SED*		16. NO	SION OF IN LEASE		OF ACRES ASSIGNED		
PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	1980'			1	640		
18. DISTANCE FROM PROP	OSED LOCATION*	1	Q149. Q1	OPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	<u> </u>	
TO NEAREST WELL, DO OR APPLIED FOR, ON THE	IS LEASE, FT.	NA NA		9700'		Rotary	<u></u>	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc	c.)				22. APPROX. DATE WORK WILL START*		
5850' GR				.911 		8/25/81		
23.		PROPOSED (CASING ANI	CEMENTING PROG	RAM		• •	
SIZE OF HOLE	SIZE OF CASING	WEIGHT	PER FOOT	SETTING DEPTH		QUANTITY OF CEME	NT	
17-1/2"	13-3/8"	48	#	200'	150 s	150 sx, circ to surface		
12-1/4"	8-5/8"	24		1000'		CIRC TO SURFACE		
7-7/8"	4-1/2"	11.6 &		9700'		sxs in 2 stage		
Drill 9700' Me hole, set 200' test casing an BOP operation water to clear cement (calc obrine water from the 8.5 to 9.5 a commercial water from Petrole the existing recounty road con Non-standard I Corporation has IN ABOVE SPACE DESCRIBED ZONE. If proposal is to preventer program, if any 24.	of 13-3/8" ad BOP to 70% daily and re hole, set 1 on 800' of fi rom 1000' to ppg. Evaluat well is expect commences in S location requ ls minerals us profosed program: drill or deepen direc	surface ca of casing cord. Dri 000' of 8- 11). WOC 4500', and te well by ted. on is also Attachmen Section 3. Wested due under the e	sing and yield, 11 12-1, 5/8" inc 12 hrs. a polyn sample a request t 2. Th to ravir ntire SN deepen or p tinent data of	1211 psig, be 1211 psig, be 14" intermedia dermediate cas Drill out wi mer brine wate analysis and e ting by this a nis Row extend ne at standard 1 quarter of S lug back, give data on a subsurface locations	o 200's rface. fore drite hole ing, and th 7-7/8 r from a lectric pplication present production and measure	to 1000', with to 1000', with dement with 3" bit to 9700' to 9700' logs. Run 4- ion, right-of-subject well to the contract of	ter to clean Pressure ent. Test h native 330 sxs of ', using . Mud wt will 1/2" casing in way to use o where the troleum ed new productive hs. Give blowout	
SIGNED	COOK	<u>7)/</u>	TITLE Div	<u>/ision Product</u>	ion Mana	ager DATE 7/15	/81	
(This space for Fede	ral or State office use	е) 🖟	:		÷.			
PERMIT NO.	-1700 8			APPROVAL DATE		Allin	~1. 9. 100±	
APPROVED BY	Mala Mala	fle-	TITLE	FOR E.W. GUYNN DISTRICT EN		DATE	1 3 198t	
			-					
NOTE: Please	expedite thi	is approval	as leas	se expiration	is Augus	ST 31. 1981.		





Powers Elevation of Denver, Colorado
has in accordance with a request from Doug Wood
for Cotton Petroleum Company
determined the location of Federal 1-22
to be 1980' FSL & 1280' FWL of Section 22 Township 105
Range 17E of the Salt Lake Meridian
Ducheshe County, UTAH

I hereby certify that this plat is an accurate representation of a correct survey showing the location of

Date: July 17, 1981

Licensed Land Surveyor No. 5443
State of UTAH

T.17 E

August 18, 1981

Cotton Petroleum Corp. 717 17th Street, STE. #2200 Demver, Colo. 80202

RE: Well No. Federal #1-22, Sec. 22, T. 10S, R. 17E, Duchedne County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well on said unorthodox location is hereby granted in accordance with Rule C-3(c), in the General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer Office: 533-5771

Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-013-305959

Sincerely,

DIVISION OF OIL, GRAS, AND BINING

Michael T. Minder Petroleum Engineer

All Mary

MTM/db CC: USGS Well No. Duncan Fed. #1-10 Sec. 28, T. 9S, R. 17E Duchesne County, Utah (September 1981 - November 1981)

Well No. Pete's Wash #1-22 Sec. 22, T. 10S, R. 22E Duchesne County, Utah (September 1981 - November 1981)

Well No. Love Unit #B 2-3 Sec. 3, T. 11S, R. 21E Uintah County, Utah (September 1981- November 1981)

Well No. Love Unit 4-1 Sec. 4, T. 11S, R. 21E Uintah County, Utah (August 1981 - November 1981)

NOTICE OF SPUD

Cotton
Petrolum

Caller: \) \\ \) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
Phone:
Well Number: Petel Wash Unit
Location: NWSW 22-105-17E
County: Dichene State: Ittal
Lease Number: (1-43356
Lease Expiration Date:
Unit Name (If Applicable): Rells wash
Date & Time Spudded: 8-27-8/ 3'00 P.M
Dry Hole Spudder/Rotary:
Details of Spud (Hole, Casing, Cement, etc.)
Rotary Rig Name & Number: Landmark 142
Approximate Date Rotary Moves In:
FOLLOW WITH SUNDRY NOTICE
Call Received By:
Date: 9-8-72

UNITED STATES

	Form Approved.
~	Budget Bureau No. 42-R142

UNITED STATES	5. LEASE
DEPARTMENT OF THE INTERIOR	U-43356
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir, Use Form 9-331-C for such proposals.)	7. UNIT AGREEMENT NAME Pete's Wash Unit
	8. FARM OR LEASE NAME NA
1. oil gas well other	9. WELL NO. 1-22
2. NAME OF OPERATOR Cotton Petroleum Corporation	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR 717 17th St, Suite 2200, Denver, CO 80202	Undesignated 11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	11. SEC., T., R. M. OR BLK. AND SURVEY OR AREA C/NWSW SEC 22-T10S-RT7
at surface: 1280' FWL & 1980' FSL at top prod. interval:	12. COUNTY OR PARISH 13. STATE Utah
AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 5850' GR
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	. - - .
SHOOT OR ACIDIZE	WOTE B
PULL OR ALTER CASING	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
MULTIPLE COMPLETE CHANGE ZONES	
ABANDON*	
(other) Name change, and set surface casing	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertinent	irectionally drilled, give subsurface locations and
The Federal 1-22 well has been changed to the USGS in Denver, Colorado will approve the Pet August 28, 1981.	e Pete's Wash Unit 1-22. The te's Wash Unit, effective
On August 26, 1981, 210' of 13-3/8", 48#, H-4 with 225 sacks of cement.	10 casing was set and cemented
	116 81 19 01
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	OMENON OF THE PROPERTY OF THE
SIGNED TITLE Div Prod Mgr	dateAugust 27, 1981
(This space for Federal or State offi	ce use)
	DATE
CONDITIONS OF APPROVAL, IF ANY:	

UNITED STATES DEPARTMENT OF THE INTERIO GEOLOGICAL SURVEY (FORM 9-329) (2/76) OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. <u>U-43356</u>	
Communitization Agreem. No. NA	
Field Name Wildcat	
Unit Name NA	
Participating Area NA	
County Duchesne State Utah	
Operator Cotton Petroleum Corporation	_
•	-
☐ Amended Report	

The following is a correct report of operations and production (including status of all unplugged wells) for the month of _____ 19 81

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
1-22	NW/SW Sec.22	ج 10 ,5	17E	MIRU	Drilli Ran DS	ng, ran 74 j T#1 from 476	nts 8-5/8", D' - 4824'.	cmtw/660 sxs	Class G.
				• • •					
		-		•		·		·	
								·	
								•	
	·								•

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate	Gas	Water
	(BBLS)	(MCF)	(BBLS)
*On hand, Start of Month		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx
*Produced		 	
*Sold		· ·	XXXXXXXXXXXXXXXX
*Spilled or Lost		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxx
*Flared or Vented	xxxxxxxxxxxxxxxxx		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXX
*Injected			
*Surface Pits	xxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxx	
Other (Identify)	·	· .	
On hand, End of Month		xxxxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXX
API Gravity/BTU Content		·	xxxxxxxxxxxxxxx
Authorized Signature:		17 17th St., Suite Page1 of	2200, Denver,CO 80
ille.		1 ageUI	

UNITED STATES DEPARTMENT OF THE INTERIO **GEOLOGICAL SURVEY** (FORM 9-329) (2/76)42-RO 356

MONTHLY REPORT OF **OPERATIONS**

Lease No. <u>U-43356</u>	
Communitization Agreem	NoNA
Field Name Wildcat	(V)
Unit Nama NA	
Participating Area NA	
County Duchesne	State <u>Utah</u>
Operator Cotton Petroleu	m Corporation
Amended Report	

The following is a correct report of operations and production (including status of all unplugged wells) for the month

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	"Barrels of Water	Remarks
1-22	NW/SW	105	17E	Conti	huod da	lling from	570/I 001/	•1	
1-22	ľ	100	1/-	Conti	nueu ur	lling from	p/04 = 0010	•	
	Sec.22	1	ļ	•					
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*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate	Gas	Water
	(BBLS)	(MCF)	(BBLS)
*On hand, Start of Month	<u> </u>	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx
*Produced			
*Sold			xxxxxxxxxxxxxx
Spilled or Lost		xxxxxxxxxxxxxx	XXXXXXXXXXXXXXXXX
Flared or Vented	*****	: 	XXXXXXXXXXXXXXXX
'Used on Lease		<u> </u>	XXXXXXXXXXXXXXXX
Injected		1	
Surface Pits	<u>xxxxxxxxxxxxxxx</u>	*xxxxxxxxxxxxxx	
Other (Identify)			
On hand, End of Month		<u>xxxxxxxxxxxxxxxx</u>	KXXXXXXXXXXXXXXX
API Gravity/BTU Content	1		XXXXXXXXXXXXXXXX
Authorized Signature: A C CC	-	17 17th St., Suite Page 1 of	2200, Denver,CO 80

Schlumberger

RECEIVE

GOT 05 100'

DIVISION OF OIL, GAS & MINING

COUNTY DUCHESNE

STATE UTAH

technical report

FIELD REPORT #34138 E

WELL IDENTIFICATION

: PETE'S WASH FEDERAL #1-22 1. WELL : COTTON PETROLEUM CORPORATION 2. COMPANY : 717 - 17TH STREET, SUITE 2200 3, DENVER, COLORADO 80202 4. 5. CUSTOMER 7. ; WILDCAT 8. FIELD : DUCHESNE 9. COUNTY HATU : 10. STATE/PROV. : SEC. 22, T105 R17E 11. LOCATION : MITCHELL (VERNAL) 12. TECHNICIAN * MR. R.J. FRITTS 13. TEST APPROVED BY 14. TEST DATE ; 9-26-81 : KELLY BUSHING 15. DEPTH REFERENCE FT 16. DEPTH REFERENCE ELEVATION : S.L.

HOLE INFORMATION

1. THE HOLE IS STRAIGHT.

2. TOTAL DEPTH : 4824. FT 3. OPEN HOLE DIAMETER : 7.87 IN

MUD INFORMATION

1.	11 12 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		GEL	
2.	MUD WEIGHT	÷	9.0	LB/GAL
3.	MUD VISCOSITY	ţ	31.	MARSH FUNNEL SEC
4.	CORRECTED WATER LOSS	ţ	10.8	CC/30 MIN
5.	MUD RESISTIVITY	ţ	0.49	OHM-M
6.	MUD RES. MEAS. TEMP.	ţ	6010	DEG F
7.	MUD FILTRATE RESISTIVITY	7	0.36	OHM-M :
	MUD FILT. RES. MEAS. TEMP.			
9.	MUD CHLORIDES CONTENT	ţ	11,500	PPM BY WEIGHT

TEST INFORMATION

1. FIELD REPORT NUMBER
2. TEST TYPE
3. TEST NUMBER
4. TELEFLOW IN USE ?
5. SSDR OR J-300 IN USE ?
6. SPRO IN USE ?
7. PTSDL IN USE ?

TEST STRING INFORMATION

#	COMPONENT NAME	EFFEC I.D. (IN)	O.D. (IN)	FLOW PATH LENGTH (FT)	J/M CODE
1	DRILL PIPE	3.34	4.00	4160.	
2	DRILL COLLARS	2.25	6.75	558.	
3	TEST TOOL STRING	0.93	5.00	106.	

TEST STRING PLACEMENT

1. TEST TYPE CODE 1 - ON BOTTOM

2. PACKER DEPTHS

: 4755. FT & 4760. FT

TEST ZONE DESCRIPTION

			PRODU	CTION ZONE	
	FORMATION NAME	TOP (FT)	BOTTOM (FT)	THICKNESS (FT)	POROSITY (%)
٠.					
1.	GREEN RIVER			10.	

TEST CONDITIONS

1. BOTTOMHOLE CHOKE(S) EFF. INTERNAL DIA. : 0.93 IN

DEG F

TEST TOOL SAMPLE CHAMBER RECOVERY DATA

SAMPLE PRESSURE

5. PSIG

OIL GRAVITY

DEG. API @

GAS/OIL RATIO

FT3/BBL

GAS/LIQUID RATIO :

FT3/BBL

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESISTIVITY	CHLORIDES		
GAS	FT3	3			
OIL	CC				
WATER	2000.0 CC	0.35 OHM-M @ 68.0 DEG F.	11000. PPM		
MUD	200.0 CC	0.44 DHM-M @ 81.0 DEG F	11500 · PPM		
TOTAL LIQUID	2200.0 CC	•			

RECOVERY INFORMATION

			7.	7.		API	RESIS	TIVITY	CHL
	DESCRIPTION	FEET	OIL	H20	HTO	DEG. DEG.F	0 H M - M	DEG.F	PPM
	الله الله الله الله الله الله الله الله								
1	RATHOLE MUD & WATER	300		50	50				
	TOP SAMPLE .		•	•			0.32	76	9600.
	MIDDLE SAMPLE	•					0.37	80	8000.
	BOTTOM SAMPLE						0.43	83	11000.

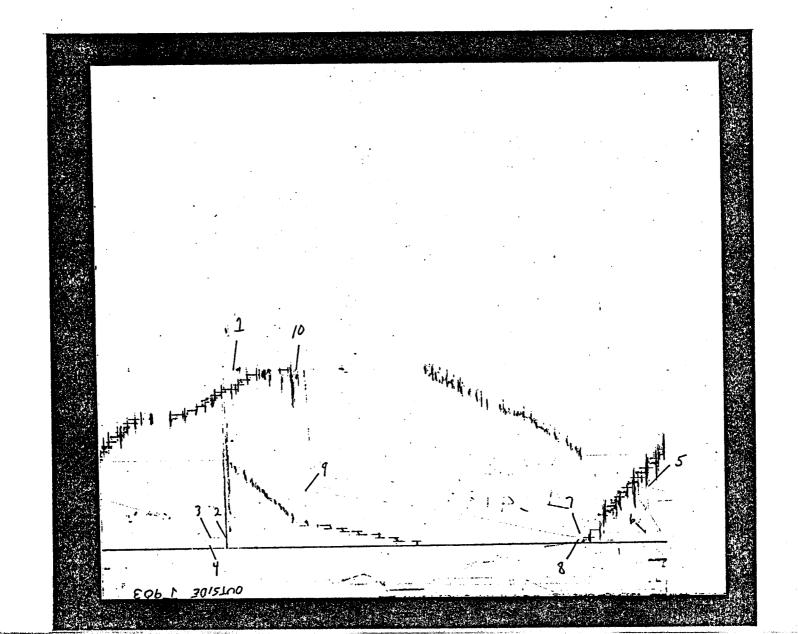
SURFACE INFORMATION

	DESCRIPTION	TIME	PRESSURE	CHOKE
. 1	SET PACKER	0654		-
2	OPENED TOOL	0658	-	1/4"
3	BLOW IN BUCKET	•	-	
4		0659	1.00 DZ	11
5		0701	3.00 "	11
4	CLOSED FOR INITIAL SHUT-IN	0708	- 1	11
7	SLIGHT BLOW	•	-	H
8	FINISHED SHUT-IN	0808	-	н
9	NO BLOW			#1
10	RE-OPENED TOOL	0812	-	11
11	NO BLOW	•	-	H
12	NO BLOW FOR REMAINDER OF TEST		_	n
13	CLOSED FOR FINAL SHUT-IN	0842		H

DESCRIPTION	·	TIME	PRESSURE	CHOKE
 FINISHED SHUT-IN FULLED PACKER LOOSE		1051 1055	-	-

REMARKS: SLID 10' TO BOTTOM DURING INITIAL FLOW.

јони**зтон** * Schlumberger



BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 34138E

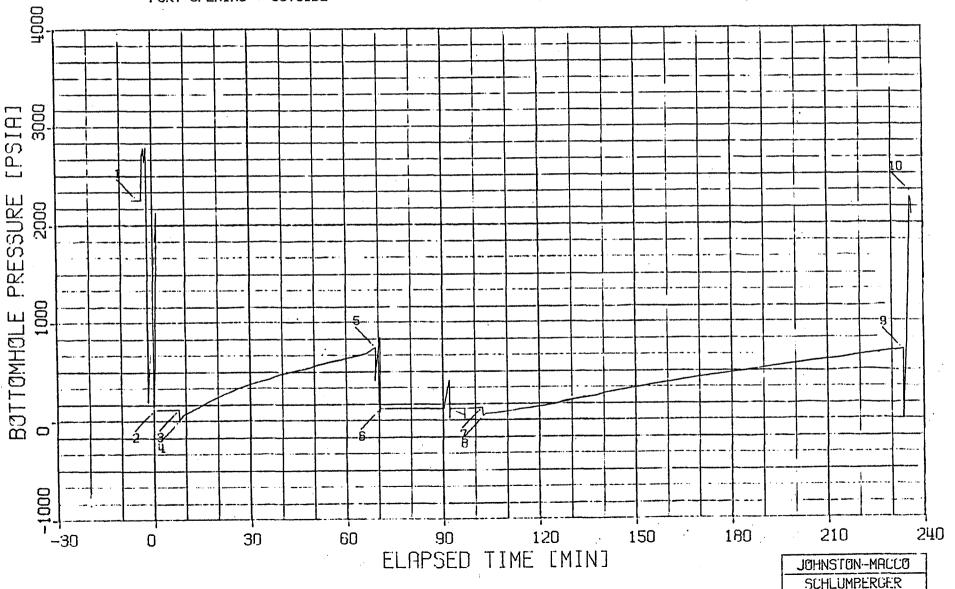
COMPANY: COTTON PETROLEUM CORPORATION

INSTRUMENT NO. J-903

WELL : PETE'S WASH FEDERAL #1-22

DEPTH : 4791 FT CAPACITY : 6400 PSI

PORT OPENING : OUTSIDE



FIELD REPORT # : 34138E

COMPANY : COTTON PETROLEUM CORPORATION

WELL : PETE'S WASH FEDERAL #1-22

INSTRUMENT # : J-903

CAPACITY [PSI] :

DEFTH [FT] : 4791.0 PORT OPENING : OUTSIDE

TEMPERATURE [DEG F] : 126.0

LABEL POINT INFORMATION ********

#	TIME OF DAY HH:MM:SS *******		• EXPLANATION ************************************	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA ********
1	6:53:16	26-SP	HYDROSTATIC MUD	-4.74	2261.32
2	6:58: 0	26-SP	START FLOW	0.00	117.22
3	7: 5:35	26-SP	END FLOW	7.59	119.72
4	7: 5:55	26-SF	START SHUT-IN	7.91	10.59
5	8: 7: 3	26-SP	END SHUT-IN	69.05	741.03
6	8: 8:24	26-SP	START FLOW	70.40	117.85
7	8:40: 4	26-SP	END FLOW	102.07	129.42
8	8:40:28	26-SP	START SHUT-IN	102.47	38.74
9	10:51:11	26-SF	END SHUT-IN	233.18	710.39
10			HYDROSTATIC MUD	236.41	2292.28

SUMMARY OF FLOW PERIODS ***************

	START	END		START	END
	ELAPSED	ELAPSED	DURATION	PRESSURE	PRESSURE
PERIOD	TIME, MIN	TIME, MIN	MIN	PSIA	PSIA
*****	*******	******	******	* * * * * * * * * *	*****
1	0.00	7.59	7.59	117.22	119.72
2	70.40	102.07	31.67	117.85	129.42

SUMMARY OF SHUTIN PERIODS ********

	TIME, MIN	END ELAPSED TIME, MIN ******	MIN	PSIA	PSIA		PRODUCING TIME, MIN
1	7.91	69.05 233.18	61.14	10.59	741.03 710.39	119.72 129.42	7.59 39.26



TEST PHASE : FLOW PERIOD # 1

TIME				DUI NULE
OF DAY	DATE	ELAPSED	DELTA	PRESSURE
HH: MM:SS	mm-ad	TIME, MIN	TIME, MIN	PSIA
******	****	*****	*****	*******
6:58: 0	26-SP	0.00	0.00	117.22
7: 3: 0		5.00	5.00	118.87
7: 5:35		7.59	7.59	119.72

TEST PHASE: SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 119.72
PRODUCING TIME [MIN] = 7.59

TIME OF DAY HH:MM:SS		ELAPSED TIME, MIN	DELTA TIME, MIN		DELTA P PSI ******	TIME
7: 5:55 7: 6:55	26-SP 26-SP	7.91 8.91 9.91	0.00 1.00 2.00	10.59 59.98 79.19	-109.13 -59.74 -40.53	0.934 0.681
7: 7:55 7: 8:55 7: 9:55 7:10:55		10.91	3.00 4.00 5.00	96.12 113.12 130.47	-23.60 -6.60 10.75	0.548 0.462 0.401
7:11:55 7:12:55 7:13:55 7:14:55	26-SP 26-SP 26-SP 26-SP	13.91 14.91 15.91 16.91	6.00 7.00 8.00 9.00	182.52	28.10 45.45 62.80 80.15	0.319
7:15:55 7:17:55 7:19:55	26-SP 26-SP 26-SP	17.91 19.91 21.91	10.00 12.00 14.00	217.22 247.80 277.62	97.50 128.08 157.90	0.245 0.213 0.188
7:21:53 7:23:55 7:25:55 7:27:55		23.91 25.91 27.91 29.91	16.00 18.00 20.00 22.00	331.38 355.37	185.12 211.66 235.65 259.58	0.153 0.140 0.129
7:29:55 7:31:55 7:33:55	26-SP 26-SP 26-SP	31.91 33.91 35.91	24.00 26.00 28.00 30.00	396.67 413.70	276.95 293.98 312.00 340.65	
7:35:55 7:40:55 7:45:55 7:50:55	26-SF	42.91	30.00 35.00 40.00 45.00	505.02 541.09 585.70	385.30 421.37 445.98	0.085 0.075 0.068
7:55:55 8: 0:55 8: 5:55 8: 7: 3	26-SP 26-SP		50.00 55.00 60.00 61.14	656.68	501.48 536.96 598.27 621.31	0.056
		• • .				

TEST PHASE : FLOW PERIOD # 2

TIME				BOT HOLE
OF DAY	DATE	ELAPSED	DELTA	PRESSURE
HH: MM:SS	DD-MM	TIME, MIN	TIME, MIN	PSIA
******	****	****	* * * * * * * *	*****
8; 8;24	26-SP	70.40	0.00	117.85
8:13:24		75.40	5.00	117.85
8:18:24	26-SP	80.40	10.00	117.85
8:23:24	26-SP	85.40	15.00	117.85
8:28:24	26-SP	90.40	20.00	157.44
8:33:24	26-SP	95.40	25.00	118.16
8:38:24	26-SP	100.40	30.00	125.78
8:40: 4	26-SP	102.07	31.67	129.42

TEST PHASE : SHUTIN PERIOD # 2 FINAL FLOW PRESSURE [PSIA] = 129.42 PRODUCING TIME [MIN] = 39.26

TIME				BOT HOLE		LOG
OF DAY	DATE	ELAPSED	DELTA	PRESSURE	DELTA P	HORNER
HH: MM:SS		TIME, MIN			PSI	TIME
*****	****	*****	*****	******	*****	****
8:40:28	26-SP	102.47	0.00	38.74		
8:41:28		103.47	1.00	66.78	-62.64	1.605
8:42:28		104.47	2.00	70.27	-59.15	1.314
8:43:28		105.47	3.00	73.77	-551.65	1.149
8:44:28		106.47	4.00	77.26	-52.16	1.034
8:45:28		107.47	5.00	80.75	-48.67	0.947
8:46:28		108.47	6.00	84.24	-45.18	0.878
8:47:28			7.00	89.03	-40.39	0.820
8:48:28	26-SP		8.00	94.69	-34.73	0.771
8:49:28		111.47	9.00	100.34	-29.08	0.729
8:50:28			10.00	106.00	-23.42	0.692
8:52:28			12.00	116.66	-12.76	0.631
8:54:28				126.32	-3.10	0.580
8:56:28		118.47		135.98	6.56	0.538
8:58:28			18.00	145.64	16.22	0.503
9: 0:28			20.00	155.30	25.88	0.472
9: 2:28			22.00	164.97	35.55	0.445
9: 4:28		126.47	24.00	188.54	59.12	0.421
9: 6:28			26.00	204.61	75.19	0.400
9: 8:28			28.00	217.15	87.73	0.381
9:10:28		132.47	30.00	227.06	97.64	0.363
9:15:28		137.47	35.00	248.54	119.12	0.327
9:20:28	26-SP	142.47	40.00	289.25	159.83	0.297
9:25:28		147:47	45.00	318.64	189.22	0.272
9:30:28			50.00	346.98	217.56	0.252
9:35:28	26-SP		55.00	373.36	243.94	0.234
9:40:28			60.00	399.58		0.219
9:45:28				426.67	297.25	0.205
9:50:28				451.19		0.193
9:55:28		177.47	75.00	475.28	345.86	0.183

TEST PHASE : SHUTIN PERIOD #

FINAL FLOW PRESSURE [PSIA] = 129.42 PRODUCING TIME [MIN] = 39.26

TIME				BOT HOLE		LUG
OF DAY	DATE	ELAPSED	DELTA	PRESSURE	DELTA P	HORNER
HH:MM:SS	DD-MM	TIME, MIN	TIME, MIN	PSIA	PSI	TIME
*****	****	*****	******	*****	****	****
10: 0:28	26-SP	182.47	80.00	498.10	368.68	0.173
10: 5:28	26-SP	187.47	85.00	520.30	390.88	0.165
10:10:28		192.47	90.00	543.48	414.06	0.157
10:15:28	26-SF	197.47	95.00	565.74	436.32	0.150
10:20:28	26-SP	202.47	100.00	586.14	456.72	0.144
10:25:28	26-SP	207.47	105.00	605.85	476.43	0.138
10:30:28	26-SP	212.47	110.00	623.62	494.20	0.133
10:35:28	26-SP	217.47	115.00	646.04	516.62	0.128
10:40:28		222.47	120.00	666 = 69	537.27	0.123
10:45:28		227.47	125.00	686.92	557.50	0.119
10:50:28		232.47	130.00	705.60	576.18	0.115
10:51:11		233.18	130.71	710.39	580.97	0.114



NOV 2 5 1981

OIL, GAS & MINING

JOHNSTON

Schlumberger

computerized data analysis

COMPUTERIZED DATA ANALYSIS

NOVEMBER 20, 1981

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION PRODUCED ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT AND AN ADEQUATE SHUT-IN BUILD-UP DID OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. AFTERFLOW WAS STILL IN EFFECT ON THE INITIAL SHUT-IN BUILD-UP TO THE EXTENT THAT THE PLOT IS CONSIDERED UNRELIABLE FOR ANALYSIS. RESERVOIR PARAMETERS WERE CALCULATED BY THE HORNER METHOD.

- 1. FLOW RATE: AN ESTIMATED FLOW RATE OF 25 MCF/DAY OF GAS AND 16 BBLS/DAY OF FLUID WAS NOTED DURING THIS TEST.
- 2. <u>RESERVOIR PRESSURE</u>: MECHANICAL STABILIZATION OF THE FINAL SHUT-IN PRESSURE BUILD-UP INDICATES A MAXIMUM RESERVOIR PRESSURE OF <u>5492 P.S.I.A</u>. AT RECORDER DEPTH.
- 3. PERMEABILITY: THE CALCULATED TRANSMISSIBILITY FACTOR OF 73.51 MD.-FT./CP. INDICATES AN AVERAGE EFFECTIVE PERMEABILITY TO GAS OF .033 MD. FOR THE REPORTED 44 FOOT NET INTERVAL. THE CALCULATIONS WERE BASED ON A SLOPE OF 52.2 P.S.I./LOG CYCLE OBTAINED FROM THE FINAL SHUT-IN BUILD-UP PLOT. IT WAS ASSUMED FOR THESE CALCULATIONS: (A) GAS GRAVITY 0.70, (B) VISCOSITY .0199 CP., (C) AND GAS DEVIATION FACTOR .86. THESE FIGURES WERE OBTAINED FROM THE AVAILABLE TECHNICAL LITERATURE.
- 4. WELLBORE DAMAGE: THE CALCULATED DAMAGE RATIO OF 31.25 INDICATES THAT A HIGHLY DAMAGED WELLBORE IS PRESENT AT THE TIME AND CONDITIONS OF THIS TEST. THE PRESSURE DROP DUE TO DAMAGE IS ESTIMATED TO BE 4689 P.S.I.
- 5. RADIUS OF INVESTIGATION: THE CALCULATED RADIUS OF INVESTIGATION OF THIS TEST IS 13 FEET BASED ON AN ASSUMED POROSITY OF 8%, COMPRESSIBILITY OF 2.8 X 10^{-4} , AND OTHERS ASSUMPTIONS MADE IN NUMBER 3 ABOVE.
- 6. GENERAL COMMENTS: THE FORMATION EXHIBITS THE CHARACTERISTICS OF RELATIVELY LOW PERMEABILITY EFFECTIVE TO THE RESERVOIR FLUID AND INDICATES THE PRESENCE OF WELLBORE DAMAGE.

GARY ZOLNOSKY

DENVER RESERVOIR EVALUATION DEPARTMENT

COTTON PETROLEUM CORP.
PETE'S WASH FEDERAL #1-22,
DUCHESNE COUNTY, UTAH
SEC. 22, T10\$ R17E
10178' TO 10250', TEST #2

FIELD REPORT #34177 E

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation

Gas Reservoir Engineering Data



JOHNSTON

Instrument No. J-1401

Field Report No. 34177 E

Damage Ratio	DR	31.25	Effective Transmissibility TO GAS	<u>Κh</u> μ	73.51	Md-ft. Cp.
Maximum Reservoir Pressure FINAL SHUT-IN	Р.	5477 P.S.I.G.	Flow Rate GAS	Q	25	MCF/doy
Slope of Shut-in Curve FINAL SHUT-IN	Me	52.2 PSI/log cycle	Flow Rate LIQUID	Q	16.	BBLS/DAY
Potentiometric Surface (Datum Plane, Sea Level)	PS	8406 ft.	Pressure Gradient		.540	PSI/4.
Radius of Investigation		13 ft.	K (Effective to GAS)	.033	Md."

SLOPE M' = 5528 - 5475.8 = 52.2 P.S.I./LOG CYCLE

Assumptions made for Calculations for Gas Recoveries

- 1. Q_e is taken as steady state flow and unless stated otherwise at standard conditions 14.7 P.S.I. and 60°F.
- 2. P, is final formation flowing pressure at steady state flow.
- 3. Formation flow is taken as single phase flow. If liquid (condensate) is produced at surface, condensation is assumed to have occurred in drill pipe.
- 4. Radial flow is assumed.
- 5. Unless given, gas specific gravity is assumed to be 0.7 (air 1.0) and having pseudo critical temperature at 385° Rankin and pseudo critical pressure of 666 P.S.I.A.
- 6. Other standard radial flow, steady state assumptions.

Empirical Equations:

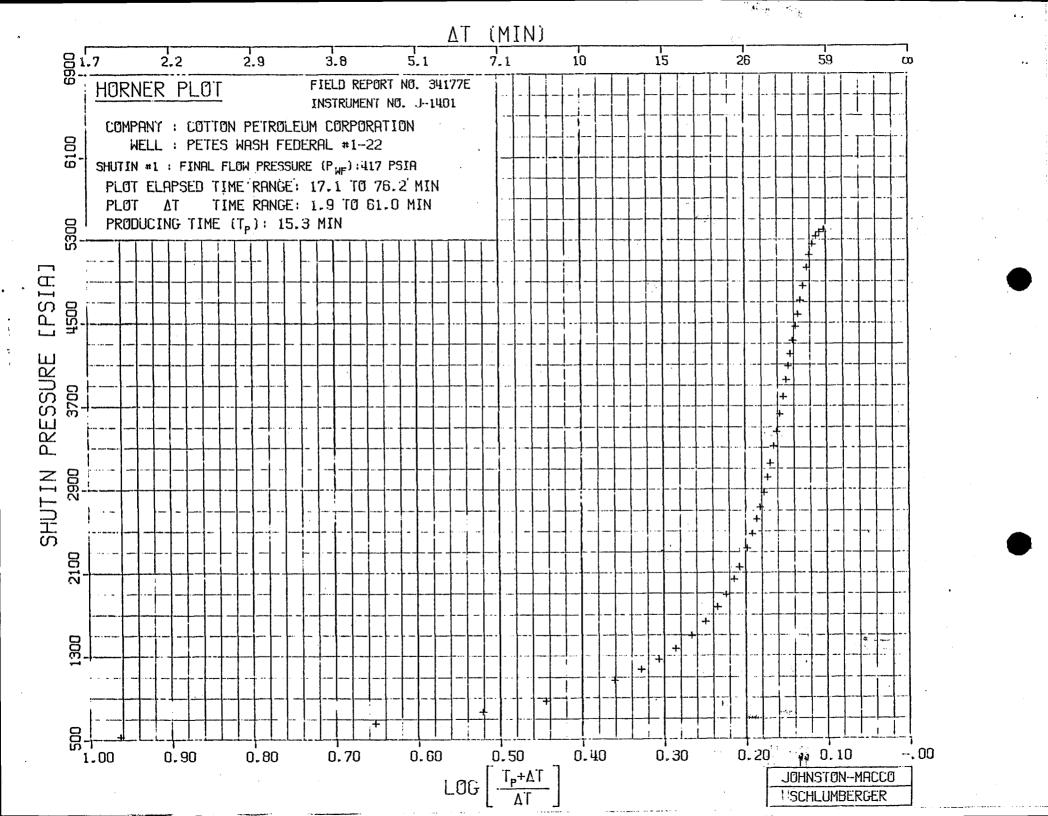
1. EDR =
$$\frac{P_0^2 - P_1^2}{M_g(\log T + 2.65)}$$
 where $M_g = \frac{P_1^2 - P_{10}^2}{\text{Log Cycle}}$

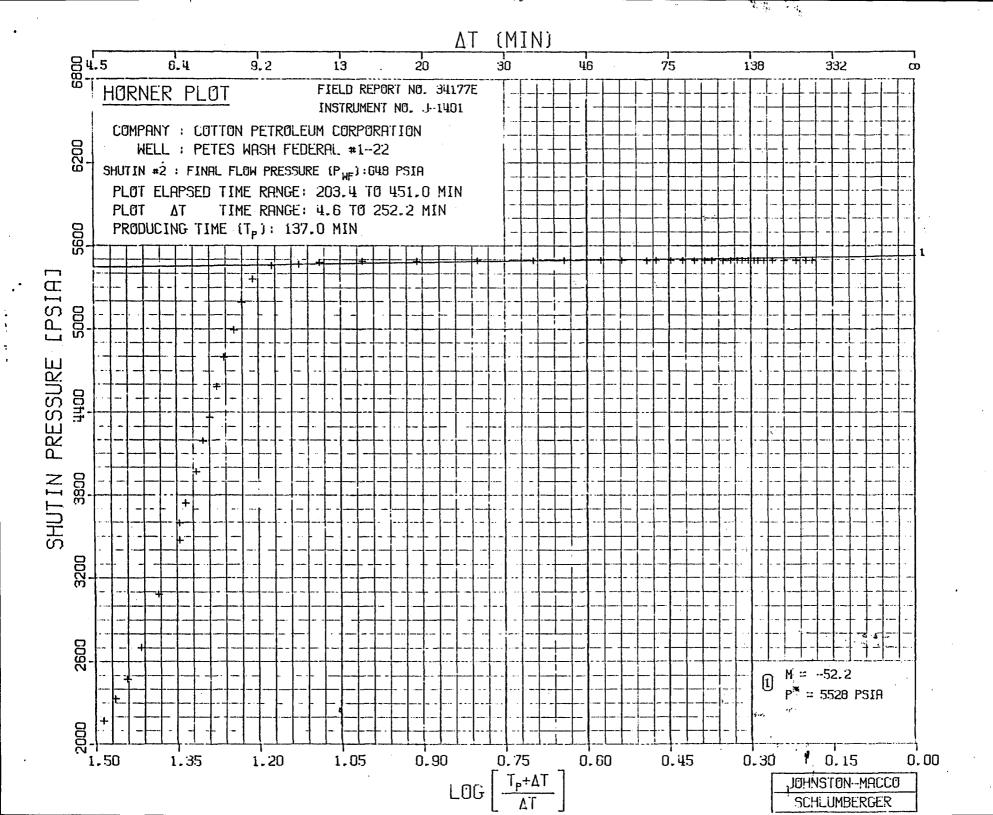
2. Transmissibility
$$\frac{Kh}{\mu Z} = \frac{1637^{\circ}T_{f}Q_{g}}{M_{g}}$$

3. P.S. =
$$\left[P_o \times 2.309 \text{ ft./PSI}\right]$$
 - $\left[\text{Recorder depth to sea level.}\right]$

4. Radius of Investigation,
$$r_{ij} = \sqrt{\frac{Kt}{40\phi (1 - S_w)\mu c}}$$
 where $t = time$ in days

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not, guarantee the accuracy or correctness or any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.





LOG LOG PLOT

COMPANY : COTTON PETROLEUM CORPORATION

WELL: PETES WASH FEDERAL #1-22

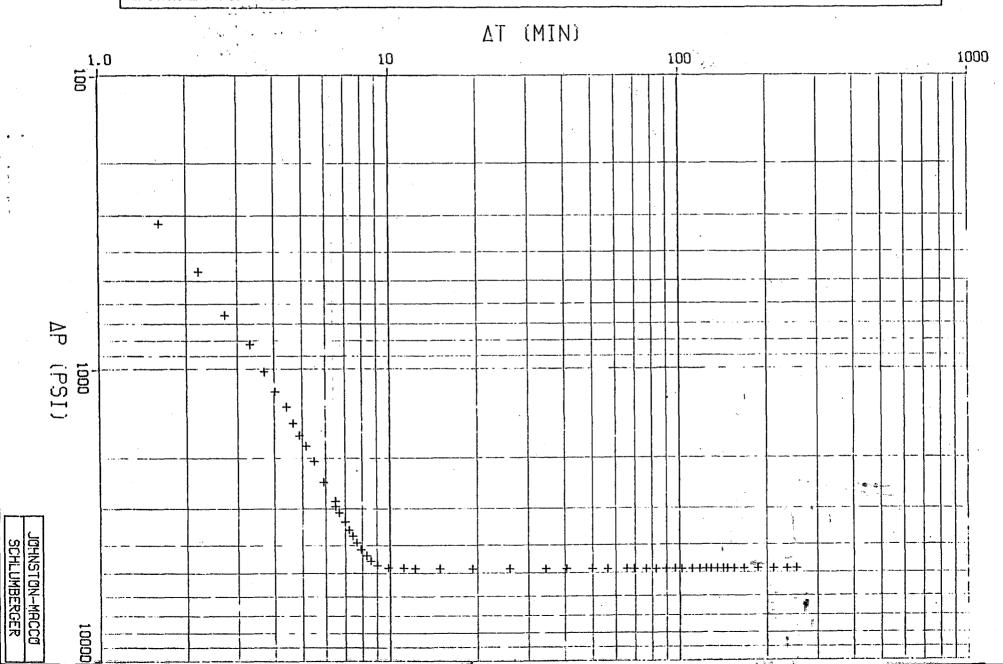
FIELD REPORT NO. 34177E INSTRUMENT NO. J-1401

SHUTIN #2 :

FINAL FLOW PRESSURE ($P_{\rm NF}$): G48 PSIA

PLOT ELAPSED TIME RANGE: 200.4 TO 451.0 MIN

PLOT AT TIME RANGE: 1.6 TO 252.2 MIN



* TEST TICKET DATA PRINTOUT *

WELL IDENTIFICATION

1.	WELL	;	PETE'S WASH FEDERAL #1-22
	COMPANY	÷	COTTON FETROLEUM CORPORATION
3.			717 - 17TH ST., SUITE 2200
4.		÷	DENVER, COLORADO 80202
	CUSTOMER	:	SAME
6.	,	;	
7.		*	
-	FIELD	ţ	WILDCAT
	COUNTY	ţ	DUCHESNE
	STATE/PROV.	*	UTAH
	LOCATION	ţ	SEC. 22, T105 R17E
12.	TECHNICIAN	÷	TORGENSEN (VERNAL)
13.	TEST APPROVED BY	;	MR. R.J. FIRTH
	TEST DATE	ţ	11-16-81
	DEPTH REFERENCE		KELLY BUSHING
16.	DEPTH REFERENCE ELEVATION	Ţ	S.L. 5865. FT

HOLE INFORMATION

- 1. THE HOLE IS STRAIGHT.
- 2. TOTAL DEPTH : 10250. FT 3. OPEN HOLE DIAMETER : 7.87 IN

MUD INFORMATION

1. MUD TYPE	ţ	SALT	
2. MUD WEIGHT	÷	9.9	LB/GAL
3. MUD VISCOSITY		39.	MARSH FUNNEL SEC
4. CORRECTED WATER LOSS	÷	14.4	CC/30 MIN
5. MUD RESISTIVITY	ţ	0.25	DHM-M
6. MUD RES. MEAS. TEMP.	ţ	56.0	DEG F
7. MUD FILTRATE RESISTIVITY			
8. MUD FILT. RES. MEAS. TEMP.		59.0	DEG F
9. MUD CHLORIDES CONTENT	. ;	70100-0	PPM BY WEIGHT
7. Heb childrides sarrier.			

TEST INFORMATION

1. FIELD REPORT NUMBER
2. TEST TYPE
3. TEST NUMBER
4. TELEFLOW IN USE?
5. SSDR OR J-300 IN USE?
6. SPRO IN USE?
7. PTSDL IN USE?
34177E
5 M.F.E. OPEN HOLE
7 NO

TEST STRING INFORMATION

	COMPONENT	EFFEC	TIVE	FLQW PATH
#	NAME	I.D. (IN)	O.D. (IN)	LENGTH (FT)
	DRILL PIPE	3.80	4.50	9158.
2	HEAVY WEIGHT PIPE	3.60	4.50	446.
3	DRILL COLLARS	2.25	6.25	523.
4	TEST TOOL STRING	0.93	5.00	123.

TEST STRING PLACEMENT

- 1. TEST TYPE CODE 1 ON BOTTOM
- 2. PACKER DEPTHS

: 10173. FT & 10178. FT

TEST ZONE DESCRIPTION

,				JCTION ZONE	
	FORMATION NAME	TOP (FT)	BOTTOM (FT)	THICKNESS (FT)	POROSITY (%)
1	MESA VERDE			44.	8.

TEST CONDITIONS

- 1. BOTTOMHOLE CHOKE(S) EFF. INTERNAL DIA. : 0.93 IN
- 2. LIQUID CUSHION TYPE
- 3. CUSHION LENGTH
- 4. CUSHION WEIGHT

: FRESH WATER

: 1000 FT

8.33 LB/GAL

* TEST TICKET DATA PRINTOUT *

TEST TOOL SAMPLE CHAMBER RECOVERY DATA

450. PSIG SAMPLE PRESSURE

DEG F DEG. API @ OIL GRAVITY

FT3/BBL GAS/OIL RATIO FT3/BBL GAS/LIQUID RATIO

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	<u>.</u>	RESI	STIVITY		CHLORI	DES .	
GAS OIL WATER MUD TOTAL LIQUID	2150.0 2150.0		0HM-M 12 0HM-M		DEG F	70,100	FPM PPM	
RECOVERY INFORMA DESCRIPT		FEET	% % GIL H20	-	API . DEG.F	RESISTI OHM-M D		CHL PPM
1 GAS CUT WATER 2 GAS CUT MUD		279 875	100			0.56	60	1600.

SURFACE INFORMATION

2 GAS CUT MUD

BOTTOM

TOP

	DESCRIPTION	TIME	PRESSURE	CHOKE
1	SET PACKER (11-16-81)	2030	-	-
2	OPENED TOOL	2031		1/8"
ュ	SURFACE BLOW	2032	-	16
4	BLOW OFF BOTTOM OF BUCKET	2043		11
5	CLOSED FOR INITIAL SHUT-IN	2046	-	**
6	FINISHED SHUT-IN	2146	_	#1
7	RE-OPENED TOOL	2148	~	10
Q	SURFACE BLOW	2149	-	H
9	BLOW, 1 1/2" IN WATER	2150	-	56
10	BLOW, 3 1/2" IN WATER	2156	-	es .
11	BLOW, 5" IN WATER	2158	-	48
12	BLOW OFF BOTTOM OF BUCKET	2202	-	t1
13	prow of the bollow of books.	2205	1.5	t:

CHLORIDES

0.12

0.10

60

60

67100.

71600.

	***************************************	•• ••		CHOKE
	DESCRIPTION	TIME	PRESSURE	SIZE
		2210	2.0	
14 15		2218	2.3	ш
16	·	2233	2.5	u
17		2248	2.8.	H
< 18	GAS TO SURFACE	2303	3.0	H * 기계 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 :
19		2318 2348	2.0	en – n j ^e sk
20	CLOSED FOR FINAL SHUI-IN	0401	2.0	¥ 11
	FINISHED SHUT-IN (11-17-81) PULLED PACKER LOOSE	0402	_ ′ ·	~

FIELD REPORT NO.: 34177 E

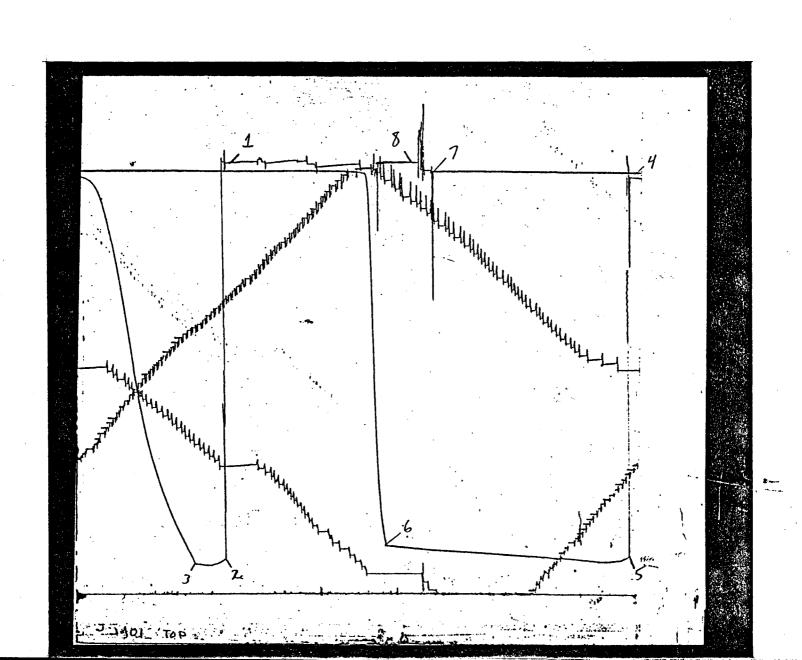
CAPACITY:_____6400#

лонивтои Schlumberger

INSTRUMENT NO.:_

J-1401

NUMBER OF REPORTS: 8



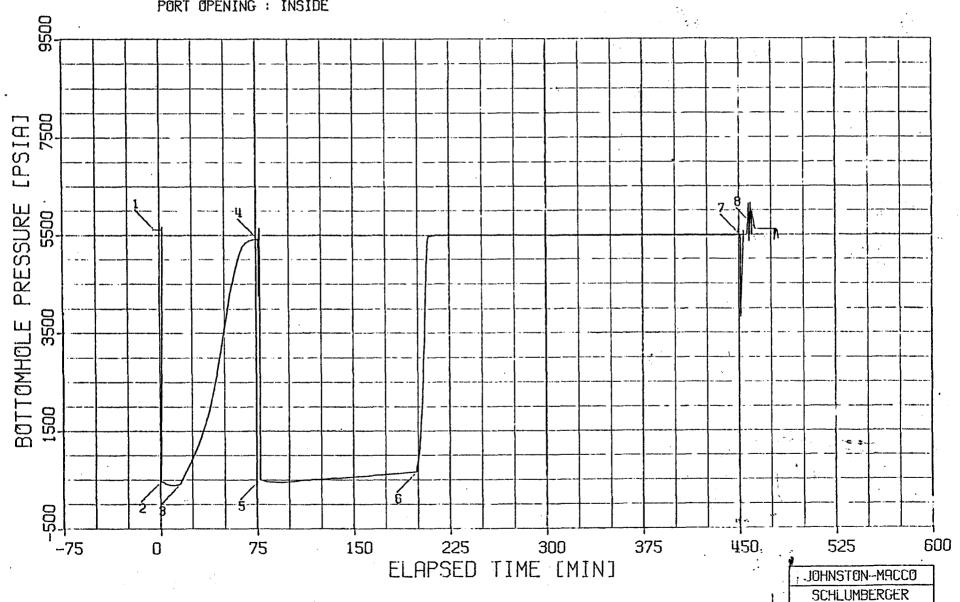
BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 34177E

INSTRUMENT NO. J-1401

DEPTH: 10140 FT CAPACITY: 6400 PSI PORT OPENING: INSIDE COMPANY: COTTON PETROLEUM CORPORATION

WELL: PETES WASH FEDERAL #1-22



FIELD REPORT # : 34177E

INSTRUMENT # : J-1401 CAPACITY [PSL] : 6400.

COMPANY : COTTON PETROLEUM CORPORATION

DEPTH (F): 10140.0 PORT OPENING : INSIDE

WELL : PETE'S WASH FEDERAL #1-22

TEMPERATURE EDEG F3 = 196.0

LABEL POINT INFORMATION

TIME

BOT HOLE

OF DAY DATE

ELAPSED PRESSURE

HH:MM:SS DD-MM

EXPLANATION

TIME, MIN : PSIA

1	20:27:25	16-NO	HYDROSTATIC MUD	-3.58	5604.26
_	_		START FLOW	0.00	471.43.
3	20:46:16	16-NO	END FLOW & START SHUT-IN	15.26	416.58
			END SHUT-IN	76.24	5417.54
			START FLOW	77.02	511.05
			END FLOW & START SHUT-IN	198.80	648.32
			END SHUT-IN	450.99	5492.04
			HYDROSTATIC MUD	463.61	5615.04

SUMMARY OF FLOW PERIODS

PERIOD	TIME, MIN	TIME, MIN	MIN	START PRESSURE PSIA ******	PSIA
4	0.00	15.26	15.26	471.43	416.58

1 0.00 15.26 15.26 471.43 418.38 2 77.02 198.80 121.78 511.05 648.32

SUMMARY OF SHUTIN PERIODS ***********

PERIOD ****	START ELAPSED TIME,MIN ******	END ELAPSED TIME, MIN ******	MIN	START PRESSURE PSIA ******	END PRESSURE PSIA ******	FINAL FLOW PRESSURE PSIA ********	PRODUCING TIME, MIN *******
1 2	15.26	76.24	60.98	416.58	5417.54	416.58	15.26
	198.80	450.99	252.19	648.32	5492.04	648.32	137.04

TEST PHASE : FLOW PERIOD # 1

TIME		•		BOT HOLE
OF DAY	DATE	ELAPSED	DELTA `	PRESSURE
HH: MM:SS	nm-ad	TIME, MIN	TIME, MIN	PSIA
******	****	*****	*****	*******
20:31: 0	16-ND	0.00	0.00	471.43
20:36: 0	16-ND	5.00	5.00	400.36
20:41: 0	16-NO	10.00	10.00	390.44
20:46: 0	16-NO	15.00	15.00	414.29
20:46:16	16-80	15.26	15.26	416.58

TEST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 416.58
PRODUCING TIME [MIN] = 15.26

			:			• .
TIME			÷ •	BOT HOLE		LOG
OF DAY	DATE	ELAPSED	DELTA	PRESSURE	DELTA P	HORNER
HH: MM:SS	DD-MM	TIME, MIN	TIME, MIN	PSIA	PSI	TIME
*****	****	*****	* * * * * * * *	*****	******	*****
20:46:16	16-NO	15.26	-0.00	416.58	0.00	
20:47:16	16-NO	16.26	1.00	476.24	59.66	1.211
20:48:16		17.26	2.00	534.48	117.90	0.936
20:49:16		18.26	3.00	584.06	167-48	0.784
	16-10	19.26	4.00	633.64	217.06	0.683
20:51:16	16-10	20.26	5.00	684.42	267.84	0.608
20:52:16	16-NO	21.26	6.00	735.86	319.28	0.549
20:53:16	16-NO	22.26	7.00	787.57	370.99	0.502
	16-NO	23.26	8.00	839.60	423.02	0.464
20:55:16	16-NO	24.26	9.00	896.10	479.52	0.431
20:56:16		25.26	10.00	957.83	541.25	0.402
	16-10	27.26	12.00	1080.84	664.26	0.356
		29.26	14.00	1205.61	789.03	0.320
21: 2:16		31.26	16.00	1349.86	933.28	0.291
	16-NO	33.26	18.00	1500.55	1083.97	0.267
21: 6:16	16-10	35.26	20.00	1664.98	1248.40.	0.246
21: 8:16	16-10	37.26	22.00	1840.55	1423.97	0.229
· · · ·	16-NO	39.26	24.00	2058.88	1642.30	0.214
	16-10	41.26	26.00	2301.50	1884.92	0.201
	16-10	43.26	28.00	2567.90	2151.32	0.189
21:16:16	16-10	45.26	30.00	2845.28	2428.70	0.179
21:21:16	16-NO	50.26	35.00	3660.57	3243.99	0.157
	16-00	55.26	40.00	4408.39	3991.81	0.140
	16-10	60.26	45.00	4953.17	4536.59	0.127
21:36:16	16-80	65.26	50.00	5291.41	4874.83	0.116
21:41:16	16-NO	70.26	55.00	5387.25	4970.67	0.106
21:46:16	16-NO	75.26	60.00	5410.75	4994.17	0.098
21:47:14		76.24	60.98	5417.54	5000.96	0.097

TEST PHASE : FLOW PERIOD # 2

TIME		•		BOT HOLE
OF DAY	DATE	ELAPSED	DELTA	PRESSURE
HH:MM:SS	DD-MM	TIME, MIN	TIME, MIN	PSIA
***	****	*****	******	*******
21:48: 1	16-NO	77.02	0.00	511.05
21:53: 1	16-NO	82.02	5.00	456.40
21:58: 1	16-40	87.02	10.00	447.44
22: 3: 1	16-10	92.02	15.00	443.53
22: 8: 1	16-NO	97.02	20.00	450.35
22:13: 1	16-NO	102.02	25.00	462.80
22:18: 1	16-10	107.02	30.00	476.36
22:23: 1	16-NO	112.02	35.00	489.01
22:28: 1	16-80	117.02	40.00	495.81
22:33: 1	16-00	122.02	45.00	502.62
22:38: 1	16-10	127.02	50.00	509.98
22:43: 1	16-80	132.02	55.00	518.50
22:48: 1	16-00	137.02	60.00	526.97
22:53: 1	16-10	142.02	65.00	535.30
22:58: 1	16-ND	147.02	70.00	544.27
23: 3: 1	16-10	152.02	75.00	554.35
23: 8: 1	16-10	157.02	00.00	562.39
23:13: 1	16-N0	162.02	85.00	569.99
23:18: 1	16-NO	167.02	90.00	579.19
23:23: 1	16-NO	172.02	95.00	588.85
23:28: 1	16-NO	177.02	100.00	599.06
23:33: 1	16-NO	182.02	105.00	608.55
23:38: 1	16-NO	187.02	110.00	620.37
23:43: 1	16-ND	192.02	115.00	632.73
23:48: 1	16-10	197.02	120.00	643.98
23:49:48	16-80	178.80	121.78	648.32

TEST PHASE : SHUTIN PERIOD # 2 FINAL FLOW PRESSURE [PSIA] = 648.32 PRODUCING TIME EMIN3 = 137.04

TIME				BOT HOLE		LOG
DF DAY	DATE	ELAPSED	DELTA	PRESSURE	DELTA P	HORNER
HH:MM:SS	DD-MM	TIME, MIN	TIME, MIN	PSIA	PSI	TIME
******	****	*****	******	** ** * * * * *	******	****
23:49:48	14-80	198.80	0.00	648.32	0.00	-
23:50:48	16-NO	199.80	1.00	856.24	207.92	2.140
23:51:48	16-10	200.80	2.00	1063.12	414.80	1.842
23:52:48	16-NO	201.80	3.00	1384.60	736.28	1.669
23:53:48	16-10	202.80	4.00	1828.71	1180.39	1.547
23:54:48	16-NO	203.80	5.00	2408.68	1760.36	1.453
23:55:48	16-NO	204.80	6.00	3165.15	2516.83	1.377
23:56:48	16-NO	205.80	7.00	4010.04	3361.72	1.313
23:57:48	16-NO	206.80	8.00	4858.35	4210.03	1.258
23:58:48	16-NO	207.80	9.00	5364.75	4716.43	1.210
23:59:48	16-NO	208.80	10.00	5458.64	4810.32	1.167
0: 1:48	17-NO	210.80	12.00	5475.93	4827.61	1.094

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = PRODUCING TIME [MIN] = 137.04

TIME		-		BOT HOLE		LOG
OF DAY	DATE	ELAPSED	DELTA	PRESSURE	DELTA P	HORNER
	DD-MM	TIME - MIN	TIME, MIN	PSIA	PSI	TIME
*****	****	*****	*****	*****	****	*****
0: 3:48	17-ND	212.80	14.00	5482.33	4834.01	
0: 5:48	17-80	214.80	16.00	5484.43		0.981
0: 7:48	17-NO	216.80	18.00	5484.43		0.935
0: 9:48	17-NB	218.80	20.00	5484.87	4836.55	0.895
0:11:48	17-NO	220.80	22.00	5485.92	4837-60	0.859
0:13:48	17-00	222.80	24.00	5486.98	4838.66	0.827
0:15:48	17-NO	224.80	26.00	5487.96	4839.64	0.797
0:17:48	17-80	226.80	28.00	5488.33	4840.01	0.770
0:19:48	17-80	228.80	30.00	5488.70	4840.38	0.746
0:24:48	17-80	233.80	35.00	5489.64	4841.32	0.692
0:29:48	17-NO	238.80			4842.35	0.646
0:34:48	17-ND	243.80	45.00	5491.08	4842.76	0.607
0:39:48	17-10	248.80	50.00	5491.40	4843.08	0.573
0:44:48	17-NO	253.80	55.00	5491.40	4843.08	0.543
0:49:48	17-80	258.80	60.00	5491.53	4843.21	0.516
0:59:48	17-10	268.80	70.00	5491.72	4843.40	0.471
1: 9:48	17-ND	278.80	80.00	5491.72	4843-40	0.433
1:19:48	17-NO	288.80	90.00	5491.72	4843.40	0.402
1:29:48	17-ND	298.80	100.00	5491.72	4843.40	0.375
1:39:48	17-NO	308.80	110.00	5491.72	4843.40	0.351
1:49:48	17-NO	318.80	120.00	5491.72	4843.40	0.331
1:59:48	17-NO	328.80	130.00	5491.72	4843.40	0.313
2: 9:48	17-NO	338.80	140.00	5491.72	4843.40	0.296
2:19:48	17-NO	348.80	150.00	5491.72	4843.40	0.282
2:29:48	17-80	358.80	160.00	5491.88	4843.56	0.269
2:39:48	17-NO	368.80	170.00	5492.04	4843.72	0.257
2:49:48	17-ND	378.80	180.00	5492.04	4843.72	0.246
2:59:48	17-80	388.80	190.00	5492.04	4843.72	0.236
3: 9:48	17-80	398.80	200.00	5492.04	4843.72	0.227
3:19:48	17-10	408.80	210.00	5492.04	4843.72	0.218
3:29:48	17-ND	418.80	220.00	5492.04	4843.72	0.210
3:39:48		428.80	230.00	5492.04	4843.72	0.203
3:49:48		438.80	240.00	5492.04	4843.72	0.196
3:59:48	17-10	448.80	250.00	5492.04	4843.72	0.190
4: 1:59			252.19	5492.04	4843.72	0.188
1. 2.07						



NOV 2 5 1981

DIVISION OF OIL. GAS & MINING

JOHNSTON

Schlumberger

computerized data analysis ge22-105-176

COMPUTERIZED DATA ANALYSIS

NOVEMBER 20, 1981

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION PRODUCED ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT AND AN ADEQUATE SHUT-IN BUILD-UP DID OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. AFTERFLOW WAS STILL IN EFFECT ON THE INITIAL SHUT-IN BUILD-UP TO THE EXTENT THAT THE PLOT IS CONSIDERED UNRELIABLE FOR ANALYSIS. RESERVOIR PARAMETERS WERE CALCULATED BY THE HORNER METHOD.

- 1. FLOW RATE: AN ESTIMATED FLOW RATE OF 25 MCF/DAY OF GAS AND 16 BBLS/DAY OF FLUID WAS NOTED DURING THIS TEST.
- 2. <u>RESERVOIR PRESSURE</u>: MECHANICAL STABILIZATION OF THE FINAL SHUT-IN PRESSURE BUILD-UP INDICATES A MAXIMUM RESERVOIR PRESSURE OF <u>5492 P.S.I.A</u>, AT RECORDER DEPTH.
- 3. <u>PERMEABILITY</u>: THE CALCULATED TRANSMISSIBILITY FACTOR OF 73.51 MD.-FT./CP. INDICATES AN AVERAGE EFFECTIVE PERMEABILITY TO GAS OF .033 MD. FOR THE REPORTED 44 FOOT NET INTERVAL. THE CALCULATIONS WERE BASED ON A SLOPE OF 52.2 P.S.I./LOG CYCLE OBTAINED FROM THE FINAL SHUT-IN BUILD-UP PLOT. IT WAS ASSUMED FOR THESE CALCULATIONS: (A) GAS GRAVITY 0.70, (B) VISCOSITY .0199 CP., (C) AND GAS DEVIATION FACTOR .86. THESE FIGURES WERE OBTAINED FROM THE AVAILABLE TECHNICAL LITERATURE.
- 4. <u>WELLBORE DAMAGE</u>: THE CALCULATED DAMAGE RATIO OF 31.25 INDICATES THAT A HIGHLY DAMAGED WELLBORE IS PRESENT AT THE TIME AND CONDITIONS OF THIS TEST. THE PRESSURE DROP DUE TO DAMAGE IS ESTIMATED TO BE 4689 P.S.I.
- 5. RADIUS OF INVESTIGATION: THE CALCULATED RADIUS OF INVESTIGATION OF THIS TEST IS 13 FEET BASED ON AN ASSUMED POROSITY OF 8%, COMPRESSIBILITY OF 2.8×10^{-4} , AND OTHERS ASSUMPTIONS MADE IN NUMBER 3 ABOVE.
- 6. <u>GENERAL COMMENTS</u>: THE FORMATION EXHIBITS THE CHARACTERISTICS OF RELATIVELY LOW PERMEABILITY EFFECTIVE TO THE RESERVOIR FLUID AND INDICATES THE PRESENCE OF WELLBORE DAMAGE.

GARY ZOLNOSKY

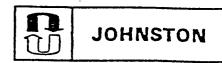
DENVER RESERVOIR EVALUATION DEPARTMENT

COTTON PETROLEUM CORP.
PETE'S WASH FEDERAL #1-22,
DUCHESNE COUNTY, UTAH
SEC. 22, T10\$ R17E
10178' TO 10250', TEST #2

FIELD REPORT #34177 E

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation

Gas Reservoir Engineering Data



Instrument No. ____J-1401

Field Report No. 34177 E

Damage Ratio	DR	31.25	Effective Transmissibility TO GAS	<u>Κh</u> μ	73.51	Md-ft. Cp.
Maximum Reservoir Pressure FINAL SHUT-IN	Р.	5477 P.S.I.G.	Flow Rate GAS	Q.,	- 25	MCF/day
Slope of Shut-in Curve FINAL SHUT-IN	Me	52.2 PSI/log cycle	LIGOID	Q	16.	BBLS/DAY
Potentiometric Surface (Datum Plane, Sea Level)	PS	8406 ft.	Pressure Gradient		.540	PSI/4.
Radius of Investigation		13 ft.	K (Effective to GAS)	.033	Md

SLOPE M = 5528 - 5475.8 = 52.2 P.S.I./LOG CYCLE

Assumptions made for Calculations for Gas Recoveries

- 1. Q_g is taken as steady state flow and unless stated otherwise at standard conditions 14.7 P.S.I. and 60°F.
- 2. P, is final formation flowing pressure at steady state flow.
- 3. Formation flow is taken as single phase flow. If liquid (condensate) is produced at surface, condensation is assumed to have occurred in drill pipe.
- 4. Radial flow is assumed.
- 5. Unless given, gas specific gravity is assumed to be 0.7 (air 1.0) and having pseudo critical temperature at 385° Rankin and pseudo critical pressure of 666 P.S.I.A.
- 6. Other standard radial flow, steady state assumptions.

Empirical Equations:

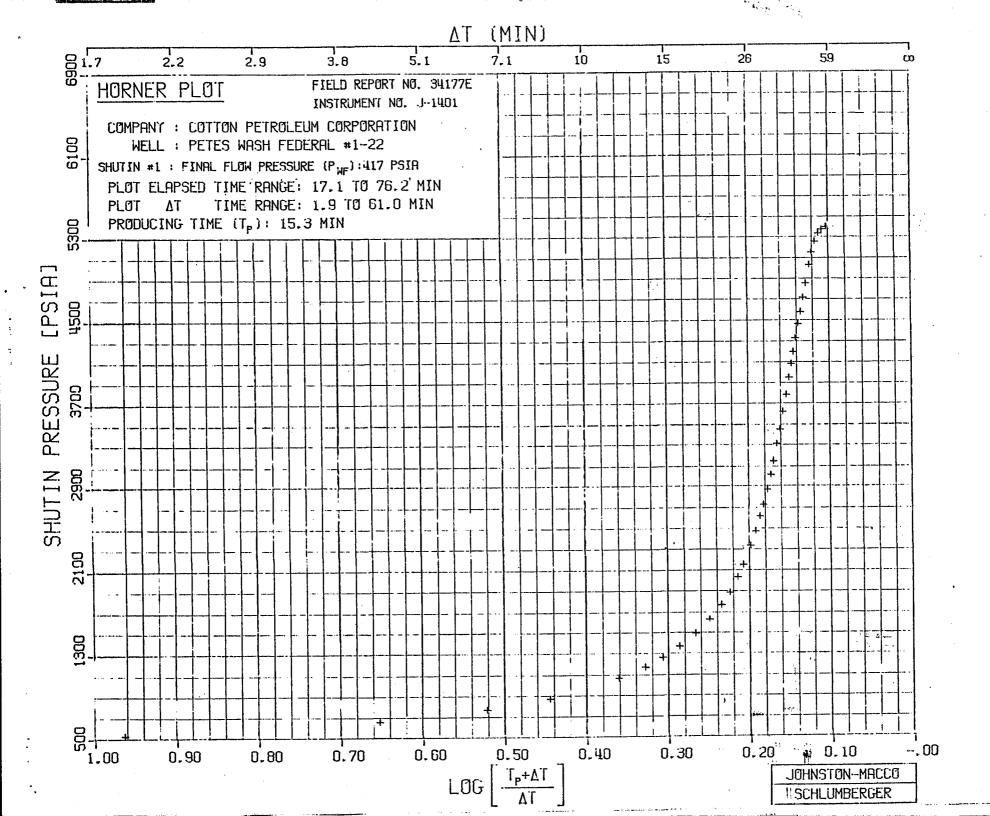
1. EDR =
$$\frac{P_0^2 - P_1^2}{M_0(\log T + 2.65)}$$
 where $M_g = \frac{P_1^2 - P_{10}^2}{\log Cycle}$

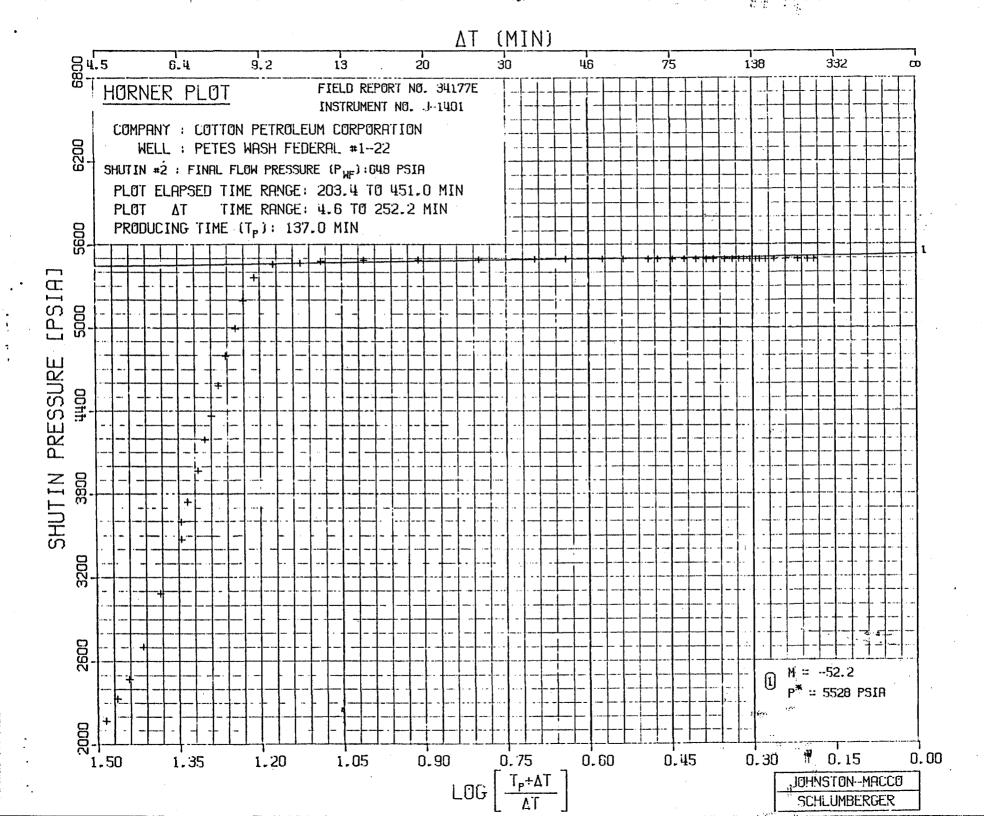
2. Transmissibility
$$\frac{Kh}{\mu Z} = \frac{1637^{\circ}T_{f}Q_{g}}{M_{g}}$$

3. P.S. =
$$[P_o \times 2.309 \text{ ft./PSI}]$$
 - $[Recorder depth to sea level.]$

4. Radius of Investigation,
$$r_i$$
, = $\sqrt{\frac{Kt}{40\phi (1 - S_w)\mu c}}$ where $t = time in days$

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not, guarantee the accuracy or correctness or any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.





LOG LOG PLOT

COMPANY : COTTON PETROLEUM CORPORATION

WELL: PETES WASH FEDERAL #1-22

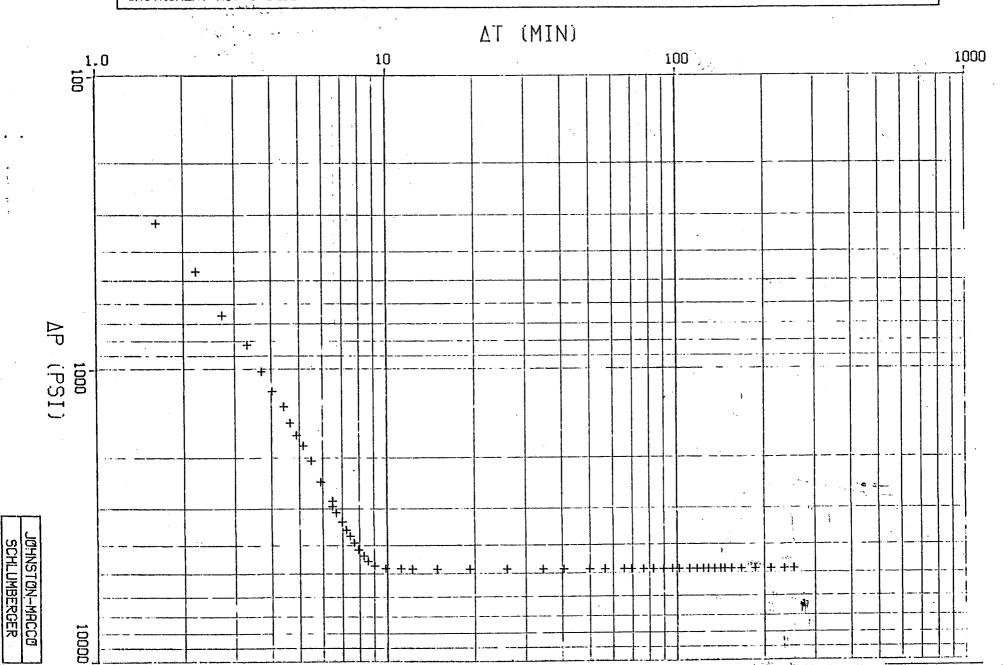
FIELD REPORT NO. 34177E INSTRUMENT NO. J-1401

SHUTIN #2 :

FINAL FLOW PRESSURE (PWF): 648 PSIA

PLOT ELAPSED TIME RANGE: 200.4 TO 451.0 MIN

PLOT AT TIME RANGE: 1.6 TO 252.2 MIN



WELL IDENTIFICATION

: PETE'S WASH FEDERAL #1-22 1. WELL : COTTON PETROLEUM CORPORATION 2. COMPANY : 717 - 17TH ST., SUITE 2200 3. : DENVER, COLORADO 80202 SAME 5. CUSTOMER 7. 8. FIELD : WILDCAT : DUCHESNE 9. COUNTY . : UTAH 10. STATE/PROV. 11. LOCATION : SEC. 22, T105 R17E 12. TECHNICIAN : TORGENSEN (VERNAL) : MR. R.J. FIRTH 13. TEST APPROVED BY 14. TEST DATE 4 : 11-16-81 : KELLY BUSHING 15. DEPTH REFERENCE 16. DEPTH REFERENCE ELEVATION : S.L. 5865. FT

HOLE INFORMATION

1. THE HOLE IS STRAIGHT.

2. TOTAL DEPTH : 10250. FT 3. OPEN HOLE DIAMETER : 7.87 IN

MUD INFORMATION

1. MUD TYPE : SALT
2. MUD WEIGHT : 9.9 LB/GAL
3. MUD VISCOSITY : 39. MARSH FUNNEL SEC
4. CORRECTED WATER LDSS : 14.4 CC/30 MIN
5. MUD RESISTIVITY : 0.25 DHM-M
6. MUD RES. MEAS. TEMP. : 56.0 DEG F
7. MUD FILTRATE RESISTIVITY : 0.36 DHM-M
8. MUD FILT. RES. MEAS. TEMP. : 59.0 DEG F
9. MUD CHLORIDES CONTENT : 70100.0 PFM BY WEIGHT

TEST INFORMATION

1. FIELD REPORT NUMBER
2. TEST TYPE
3. TEST NUMBER
4. TELEFLOW IN USE?
5. SSDR OR J-300 IN USE?
6. SPRO IN USE?
7. PTSDL IN USE?
34177E
5. M.F.E. OPEN HOLE
7. NO

TEST STRING INFORMATION

Ħ	COMPONENT NAME	EFFEC		FLQW PATH LENGTH (FT)
1	DRILL PIPE	3.80	4.50	9158.
2	HEAVY WEIGHT PIPE	3.60	4.50	446.
3	DRILL COLLARS	2.25	6.25	523.
-	TEST TOOL STRING	0.93	5.00	123.

TEST STRING PLACEMENT

- 1. TEST TYPE CODE 1 ON BOTTOM
- 2. PACKER DEPTHS

: 10173. FT & 10178. FT

TEST ZONE DESCRIPTION

1 MESA VERDE			. 44.	8.
FORMATION NAME	TOP (FT)	BOTTOM (FT)	THICKNESS (FT)	POROSITY (%)
-			CTION ZONE	

TEST CONDITIONS

- 1. BOTTOMHOLE CHOKE(S) EFF. INTERNAL DIA. : 0.93 IN
- 2. LIQUID CUSHION TYPE
- 3. CUSHION LENGTH
- 4. CUSHION WEIGHT

: FRESH WATER

: 1000_ FT

8.33 LB/GAL

TEST TOOL SAMPLE CHAMBER RECOVERY DATA

450. PSIG SAMPLE PRESSURE

DEG. API @ OIL GRAVITY

FT3/BBL GAS/OIL RATIO FT3/BBL GAS/LIQUID RATIO

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESISTIVITY	CHLORIDES	
GAS OIL WATER MUD TOTAL LIQUID	FT3 CC CC 2150.0 CC 2150.0 CC	OHM-M @ 0.12 OHM-M @ 59.0	DEG F DEG F	FPM 70,100 PPM

RECOVERY INFORMATION	-	2 %	API	RESISTIVITY	CHL
DESCRIPTION	FEET 0	IL H20 OTH	DEG. DEG.F	OHM-M DEG.F	PPM
1 GAS CUT WATER	279 875	100		0.56 60	1600.
2 GAS CUT MUD TOP	675	-		0.12 60 0.10 60	67100. 71600.

SURFACE INFORMATION

BOTTOM

	DESCRIPTION	TIME	PRESSURE	CHOKE SIZE
1	SET PACKER (11-16-81)	2030	-	_
	The second secon	2031		1/8"
3	SURFACE BLOW	2032	-	11
3	BLOW OFF BOTTOM OF BUCKET	2043		85
4	and was surred out Thi	2046	-	41
5		2146	_	
6	• • • • • • • • • • • • • • • • • • • •	2148	-	**
	RE-OPENED TOOL	2149		11
8	SURFACE BLOW	2150	-	8.
9		2156	_	41
10	BLOW, 3 1/2" IN WATER		•	18
11	BLOW, 5" IN WATER	2158	_	
12	BLOW OFF BOTTOM OF BUCKET	2202	-	
13		2205	1.5	fi

	DESCRIPTION	TIME	PRESSURE	SIZE
14	·	2210	2 . 0	ět.
15		2218	2.3	61
16		2233	2.5	H
17		2248	2.8.	# 11 20
	GAS TO SURFACE	2303	3.0	11
19	•	2318	5.0	? 11
20	CLOSED FOR FINAL SHUT-IN	2348	2.0	un e ^{rr} eig
21	FINISHED SHUT-IN (11-17-81)	0401	-	· 注 1
	PULLED PACKER LOOSE	0402		•••

FIELD REPORT NO.: 34177 E

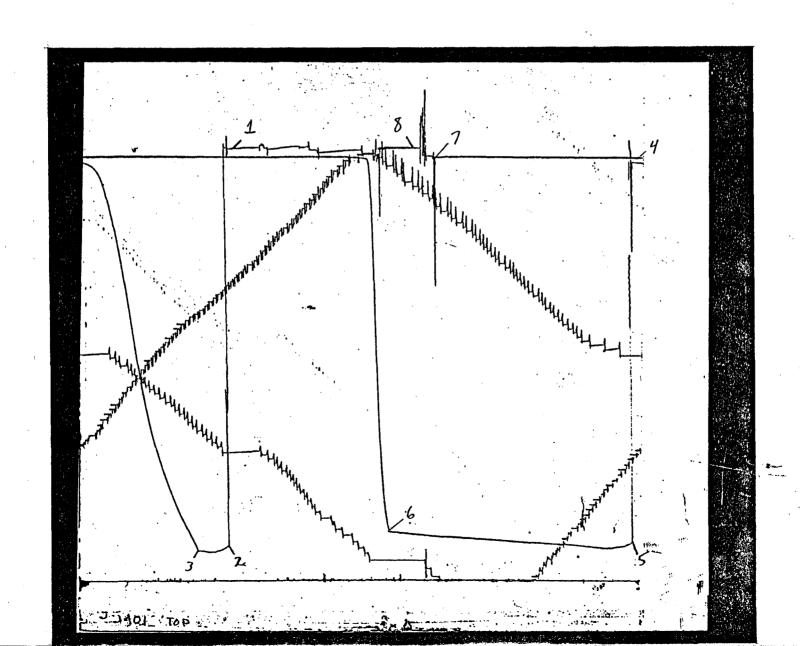
CAPACITY:_____6400#

лониятон Schlumberger

INSTRUMENT NO.:__

J-1401

NUMBER OF REPORTS: 8



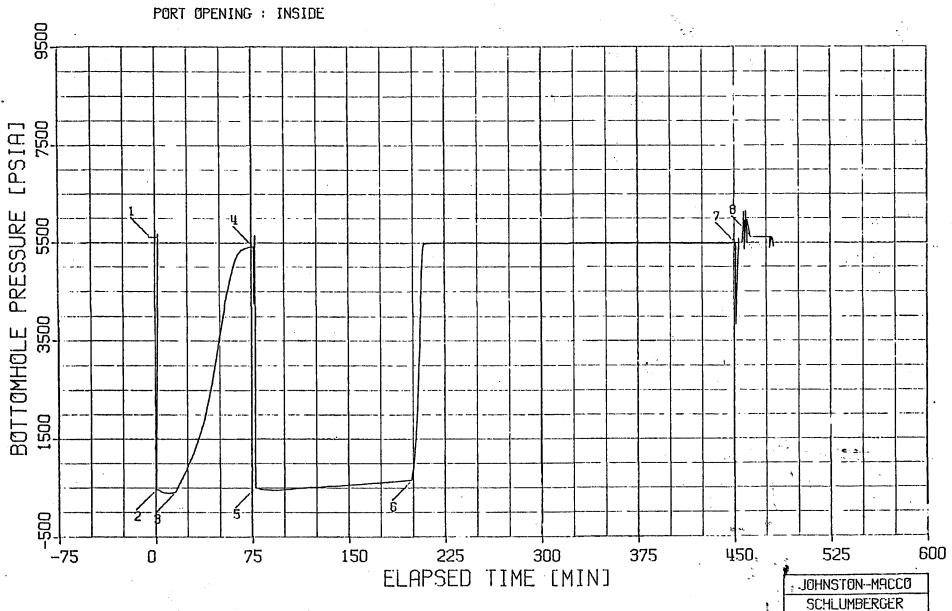
BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 34177E

INSTRUMENT NO. J-1401

DEPTH: 10140 FT CAPACITY: 6400 PSI PORT OPENING: INSIDE COMPANY: COTTON PETROLEUM CORPORATION

WELL: PETES WASH FEDERAL #1-22



FIELD REPORT # : 34177E

INSTRUMENT # : J-1401 CAPACITY [PS]] : 6400.

CHIMOLII EFO

DEPTH [FY] : 10140.0

DELLH FLAT

PORT OPENING : INSIDE TEMPERATURE EDEG FJ : 196.0

LABEL POINT INFORMATION

COMPANY : COTTON PETROLEUM CORPORATION

WELL : PETE'S WASH FEDERAL #1-22

TIME

BOT HOLE

OF DAY DATE

ELAPSED PRESSURE

HH:mm:SS DD-MM

EXPLANATION

TIME, MIN T. PSIA

*** ***** *** **** **** ***** *****

1	20:27:25	16-00	HYDROSTATIC MUD	-3.58	5604.26
			START FLOW	0.00	471.43.
			END FLOW & START SHUT-IN	15.26	416.58
			END SHUT-IN	76.24	5417.54
			START FLOW	77.02	511.05
			END FLOW & START SHUT-IN	198.80	648.32
			END SHUT-IN	450.99	5492.04
			HYDROSTATIC MUD	463.61	5615.04

SUMMARY OF FLOW PERIODS

	START	END		-START	END
	ELAPSED	ELAPSED	DURATION	PRESSURE	PRESSURE
PERIOD	TIME, MIN	TIME, MIN	MIN	PSIA	PSIA

1 0.00 15.26 15.26 471.43 416.58 2 77.02 198.80 121.78 511.05 648.32

SUMMARY OF SHUTIN PERIODS ***********

PERIOD	START ELAPSED TIME,MIN *******	END ELAPSED TIME, MIN ******	MIN	PSIA	END PRESSURE PSIA ******	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1 2	15.26	76.24	60.98	416.58	5417.54	416-58	15.26
	198.80	450.9 <i>9</i>	252.19	648.32	5492.04	648-32	137.04

TIME				BOT HOLE
OF DAY	DATE	ELAPSED	DELTA 🔪	PRESSURE
HH: MM:SS	mm-00	TIME, MIN	TIME, MIN	PSIA
******	****	*****	******	*******
20:31: 0	16-ND	0.00	0.00	471.43
20:36: 0	16-ND	5.00	5.00	400.36
20:41: 0	16-10	10.00	10.00	390.44
20:46: 0	16-NO	15.00	15.00	414.29
20:46:16	16-N0	15.26	15.26	416.58

TEST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 416.58
PRODUCING TIME [MIN] = 15.26

* * * * *				BOT HOLE		LOG
TIME OF DAY	NATE	CLARGEN		PRESSURE	DELTA P	
			TIME, MIN			TIME
HH: MM: SS				*****		
******	****	****	***	****	****	
	44 110	45 57		416.58	0.00	
20:46:16			-0.00 1.00	476.24	59.66	1.211
20:47:16						
20:48:16		17.26		534.48		
20:49:16		18.26		584.06		
20:50:16		19.26				
20:51:16		20.26	5.00	684.42	267.84	
20:52:16	16-10		6.00	735.86		
20:53:16	16-00	22.26	7.00			
20:54:16	16-NO	23.26	8.00	839.60		
20:55:16	16-NO	24.26	9.00	896.10		
20:56:16	16-NO	25.26	10.00	957.83		
20:58:16	16-NO	27.26	12.00	1080.84	664.26	
21: 0:16	16-NO	29.26	14.00	1205.61	789.03	
21: 2:16		31.26	16.00	1349.86		
21: 4:16		33.26	18.00	1500.55		
21: 6:16		35.26		1664.98		
21: 8:16				1840.55	1423.97	0.229
21:10:16			24.00	2058.88	1642.30	0.214
21:12:16			26.00	2301.50	1884.92	0.201
21:14:16				2567.90	2151.32	0.189
21:16:16				2845.28	2428.70	0.179
21:21:16				3660.57	3243.99	0.157
21:26:16				4408.39	3991.81	0.140
21:31:16					ž.	0.127
21:36:16		65.26			÷.	
21:41:16		70.26				
21:46:16						
21:40:10				5417.54	5000-96	
21.4/.14	TO-140	70.27	50475			

TEST PHASE : FLOW PERIOD

TIME		. •		BOT HOLE
OF DAY	DATE	ELAPSED	DELTA	PRESSURE
HH: MM:SS	MM-CC	TIME, MIN	TIME, MIN	PSIA
*****	****	******	******	*****
21:48: 1	16-NO	77.02	0.00	511.05
21:53: 1	16-NO	82.02	5.00	456.40
21:58: 1	16-10	87.02	10.00	447.44
22: 3: 1	16-NO	92.02	15.00	443.53
22: 8: 1	16-00	97.02	20.00	450.35
22:13: 1	16-NO	102.02	25.00	462.80
22:18: 1	16-NO	107.02	30.00	476.36
22;23; 1	16-NO	112,02	35.00	489.01
22:28: 1	16-80	117.02	40.00	495.81
22:33: 1	16-NO	122.02	45.00	502.62
22:38: 1	16-10	127.02	50.00	509.98
22:43: 1	16-10	132.02	55.00	518.50
22:48: 1	16-NO	137.02		526.97
22:53: 1	16-N0	142.02	65.00	535.30
22:58: 1	16-NO	147.02	70.00	544.27
23: 3: 1	16-NO	152.02	75.00	554.35
23: 8: 1	16-NO	157.02	80.00	562.39
23:13: 1	16-NO	162.02	85.00	569.99
23:18: 1	16-NO	167.02	90.00	579.19
23:23: 1	16-NO	172.02	95.00	588.85
23:28: 1	16-10	177.02	100.00	599.06
23:33: 1	16-NO	182.02	105.00	608.55
23:38: 1	16-NO	187.02	110.00	620.37
23:43: 1	16-ND	192.02	115.00	632.73
23:48: 1	16-NO	197.02	120.00	643.98
23:49:48	16-NO	198.80	121.78	648.32

TEST PHASE : SHUTIN PERIOD # 2 FINAL FLOW PRESSURE [PSIA] = PRODUCING TIME EMIN] = 137.04

TIME				BOT HOLE		LOG
OF DAY	DATE	ELAPSED	DELTA	PRESSURE	DELTA P	HORNER
HH: MM:SS	DD-MM	TIME - MIN	TIME, MIN	PSIA	PSI	TIME
******	****	*****	******	******	*****	****
23:49:48	16-NO	198.80	0.00	648.32	0.00	-
23:50:48	16-10	199.80	1.00	856.24	207.92	2.140
23:51:48	16-80	200.80	2.00	1063.12	414.80	1.842
23:52:48	16-NO	201.80	3.00	1384.60	736.28	1.669
23:53:48	16-10	202.80	4.00	1828.71	1180.39	1.547
23:54:48	16-NO	203.80	5.00	2408.68	1760.36	1.453
23:55:48	16-NO	204.80	6.00	3165.15	2516.83	1.377
23:56:48	16-80	205.80	7.00	4010.04	3361.72	1.313
23:57:48	16-10	206.80	8.00	4858.35	4210.03	1.258
23:58:48	16-10	207.80	9.00	5364.75	4716.43	1.210
23:59:48	16-10	208.80	10.00	5458.64	4810.32	1.167
0: 1:48	17-80	210.80	12.00	5475.93	4827.61	1.094

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = PRODUCING TIME [MIN] = 137.04

				••		
TIME				BOT HOLE		LOG
OF DAY	DATE	ELAPSED	DELTA	PRESSURE	DELTA P	HORNER
HH: MM:SS		TIME . MIN	TIME, MIN	PSIA	PSI	TIME
******	****	******	******	*****	****	****
0: 3:48	17-NO	212.80	14.00	5482.33	4834.01	
0: 5:48	17-10	214.80	16.00	5484.43		0.981
	17-NO	216.80	18.00	5484.43		0.935
0: 9:48	17-NO	218.80	20.00	5484.87	4836.55	0.895
0:11:48	17-ND	220.80	22.00	5485.92	4837.60	0.859
0:13:48	17-10	222.80	24.00	5486.98	4838.66	0.827
0:15:48	17-NO	224.80	26.00	5487.96	4839.64	
0:17:48	17-10	226.80	28.00	5488.33	4840.01	0.770
0:19:48		228.80	30.00	5488.70	4840.38	0.746
0:24:48	17-NO	233.80	35.00	5489.64	4841.32	0.692
0:29:48	17-NO	238.80	40.00		4842.35	0.646
0:34:48	17-NO	243.80	45.00	5491.08	4842.76	0.607
0:39:48	17-ND	248.80	50.00	5491.40	4843.08	0.573
0:44:48	17-NO	253.80	55.00	5491.40	4843.08	0.543
0:49:48	17-NO	258.80	60.00	5491.53	4843.21	0.516
0:59:48	17-10	268.80	70.00	5491.72	4843.40	0.471
1: 9:48	17-NO	278.80	80.00	5491.72	4843.40	0.433
1:19:48	17-NO	288.80	90.00	5491.72	4843.40	0.402
1:29:48	17-NO	298.80	100.00	5491.72	4843.40	0.375
1:39:48	17-N0	308.80	110.00	5491.72	4843.40	0.351
1:49:48	17-NO	318.80	120.00	5491.72	4843.40	0.331
1:59:48	17-NO	328.80	130.00	5491.72	4843.40	0.313
2: 9:48	17-NO	338.80	140.00	5491.72	4843.40	0.296
2:19:48	17-80	348.80	150.00	5491.72	4843.40	0.282
2:29:48	17-10	358.80	160.00	5491.88	4843.56	0.269
2:39:48	17-10	368.80	170.00	5492.04	4843.72	0.257
2:49:48	17-10	378.80	180.00	5492.04	4843.72	0.246
2:59:48	17-10	388-80	190.00	5492.04	4843.72	0.236
3: 9:48	17-NO	398.80	200.00		4843.72	0.227
3:19:48	17-80	408.80	210.00		4843.72	0.218
3:29:48	17-ND	418.80	220.00		4843.72	0.210
3:39:48			230.00			0.203
3:49:48	17-NO	438.80	240.00			
3:59:48			250.00		4843.72	
4: 1:59			252.19	5492.04	4843.72	0.188



LITE RESEARCH LABORATER

P.O Box 266

Fort Duchesne, Utah 84026

(801) 727-7

CHROMATOGRAPHIC ANALYSIS REPORT

RUN NUMBER DATE OF RUN

1 8TT 22

Cotton Pe			. SAMPLE D			,		
METER STATION NO:				DESCRI	PTION:			
MAIN LINE NO. 1				7	•.	· Peter's	Wash	
FIELD:	CYL. PRESS., P	SI		ITADOI		1-22	FORMA	TION:
CYLINDER NO:	WELL NO:		LINE PR	ESS.; PSI		A.T.M. TEMP:	ot -	F.G. TEMP:
SUBMITTED BY:	MONTH:	DAY:	HOUR		YEAR:	VOLUME, MCF/	0 0 1	5,025 PSI 80
REMARKS					- J		•	

	•		AHALYS!	S				
	11015 5613					HEA	ING VALU	E
	WOFE [%]	G.P.M.	LIQUID [%]		H	U. FT. 30 IN. HG	, 60°F, DI	RY
YDROGEN-SULFIDE IELIUM •	•		•		CALCULAT	ED 927.		
ARBON-DIOXIDE	3.56				OBSERVED)		
HTROGEN	22.88 59.39	······································		<u> </u>		•		
THANE	7.81			<u>.</u>				
ROPANE O-BUTANE	3.87 0.69	1.06 <u>2</u> 0.225	55.40 11.74	- /	CALĊULAT		IC GRAVIT	ſΥ
BUTANE	0.92	0.289	15.08	 .	. CALCOLAT			,
O-PENTANE -PENTANE	$\frac{0.26}{0.17}$	0.095	4.95 3.20		OBSERVED		· 	
EXANES & Higher EPIANES & HIGHER	0.45	0.061 0.185	9.63	-	5	कारकार	ngp	The Contract of the Contract o
& Ar	0.00			<u> </u>	COPIES TO	TO SUC	34	7.11
				_		NOV 2	7 1981	
-		-		- -		— DIVISI	ON OF	
-	-					OIL, GAS		NQ
TOTAL	100.	1.918	100.	- .	ANALYST:			
					APPROVID			
	Committee of the last and the second of the		ADDITIONAL PE	MARKS A	ಗೊರೆಗಳ ಇದು ಸಮಾಸ್ತರ್ಮವೇ ಸ್ಥಾ			
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COMPUTERIZED DATA ANALYSIS

DECEMBER 3, 1981

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION PRODUCED ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT BUT ADEQUATE SHUT-IN BUILD-UP DID NOT OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. AFTERFLOW WAS STILL IN EFFECT ON THE INITIAL SHUT-IN BUILD-UP TO THE EXTENT THAT THE PLOT IS CONSIDERED UNRELIABLE FOR ANALYSIS. RESERVOIR PARAMETERS WERE CALCULATED BY THE MCKINLEY METHOD.

- 1. FLOW RATE! A FLOW RATE OF 22 BBLS/DAY OF LIQUID WAS NOTED DURING THIS TEST.
- 2. <u>RESERVOIR PRESSURE</u>: MAXIMUM RESERVOIR PRESSURE WAS ESTIMATED TO BE 5081 P.S.I.G. AT RECORDER DEPTH USING A GRADIENT OF .47 P.S.I./FT.
- 3. PERMEABILITY: THE CALCULATED TRANSMISSIBILITY FACTOR OF .85 MD.-FT./CP. INDICATES AN AVERAGE EFFECTIVE PERMEABILITY TO LIQUID OF .0136 MD. FOR THE ASSUMED 20 FOOT NET INTERVAL. THE CALCULATIONS WERE BASED ON A MCKINLEY SLOPE OF 4399 P.S.I./LOG CYCLE OBTAINED FROM THE FINAL SHUT-IN BUILD-UP PLOT. IT WAS ASSUMED FOR THESE CALCULATIONS: (A) VISCOSITY .32 CP., (C) FORMATION VOLUME FACTOR 1.03 BBL/BBL. THESE FIGURES WERE OBTAINED FROM THE AVAILABLE TECHNICAL LITERATURE.
- 4. WELLBORE DAMAGE: THE CALCULATED DAMAGE RATIO OF .31 INDICATES THAT NO WELL-BORE DAMAGE WAS PRESENT AT THE TIME AND CONDITIONS OF THIS TEST.
- 5. RADIUS OF INVESTIGATION: THE CALCULATED RADIUS OF INVESTIGATION OF THIS TEST IS 20 FEET BASED ON AN ASSUMED POROSITY OF 8%, COMPRESSIBILITY OF 3.2 X 10-6, AND OTHER ASSUMPTIONS MADE IN NUMBER 3 ABOVE.

6. GENERAL COMMENTS: THE FORMATION EXHIBITS THE CHARACTERISTICS OF RELATIVELY LOW PERMEABILITY EFFECTIVE TO THE RESERVOIR FLUID AND POLICATES ABSENCE OF WELL-BORE DAMAGE.

E. ALLEN KLINGENSMITH
DENVER RESERVOIR EVALUATION DEPARTMENT

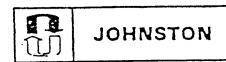
ON, CASON, OR OF THE STATE OF T

COTTON PETROLEUM CORPORATION PETE'S WASH FEDERAL #1-22 DUCHENSE COUNTY, UTAH SEC. 22, T10S R17E 10848' TO 10925', TEST #3

FIELD REPORT #34212 E

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

Reservoir Engineering Data



Recorder No. _____J-1318

Field Report No. 34212 E

Damage Ratio	DR	.31		Effective Transmissibility TO LIQUID	<u>Kh</u> μB	.85	Md-ft. Cp.
Maximum Reservoir Pressure FINAL SHUT-IN	P.	5081	P.S.I.G.	Effective Transmissability	<u>Κ</u> <u>h</u> μΒ		Md-f1, Cp.
Slope of Shut-in Curve CALCULATED	м	4399	PSI/log cycle	Flow Rate LIQUID	Q	22	. Bbl./day
Potentiometric Surface (Dotum Plane, Sea Level)	PS	6786	ft.	Pressure Gradient ESTIMATED		.47	PSI ft.
Productivity Index	ΡI	.005	Bbl./doy/PSI.	GAS LIQUID RATIO	GLR	20	CF/BЫ.
Radius of Investigation		20	ft.	K (Effective to LIQUID)	.0136	Md.

Assumptions made for Calculations for Liquid Recoveries

- Q is averaged at a constant rate.
- 2. Pr is formation flowing pressure at a constant rate.
- 3. Formation flow is taken as single phase flow.

 If gas is produced at surface, phase separation is assumed to have occurred in drill pipe.
- 4. Radial flow is assumed.
- 6. Other standard radial flow, equilibrium assumptions.

Empirical Equations:

1. EDR =
$$\frac{P_o - P_f}{M(\log T + 2.65)}$$
 where M $\cdot \frac{P_i - P_{io}}{\log Cycle}$

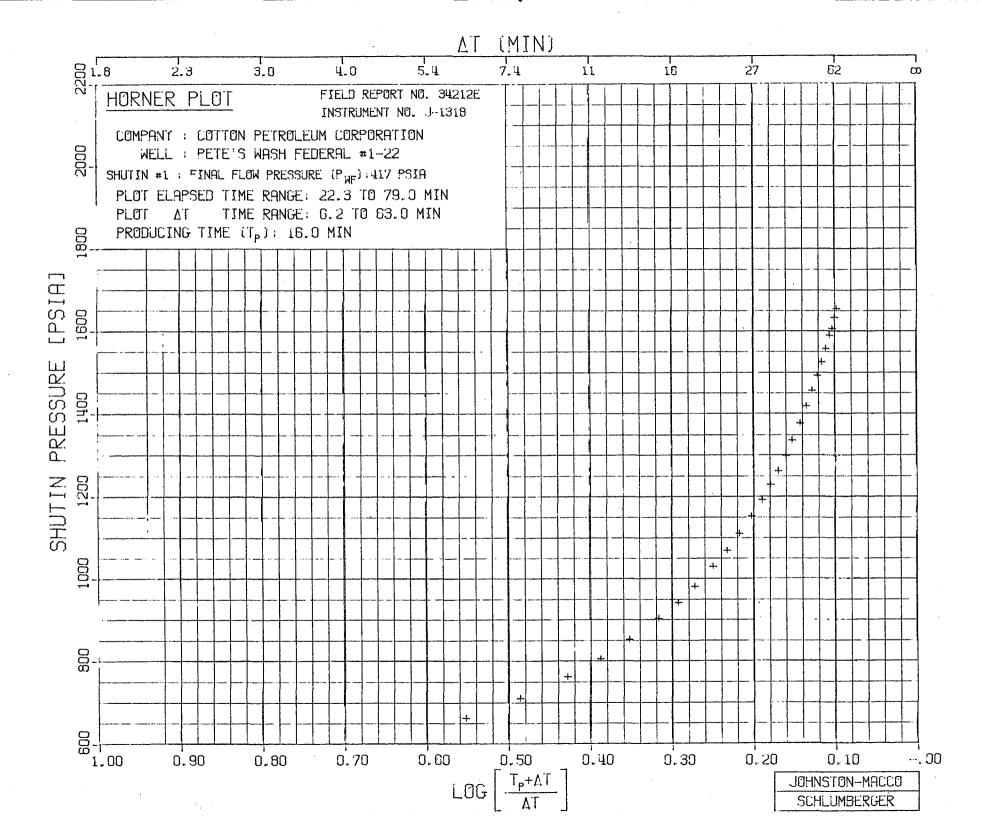
2. Transmissibility $\frac{Kh}{\mu\beta} = \frac{162.6 \text{ Q}}{M}$

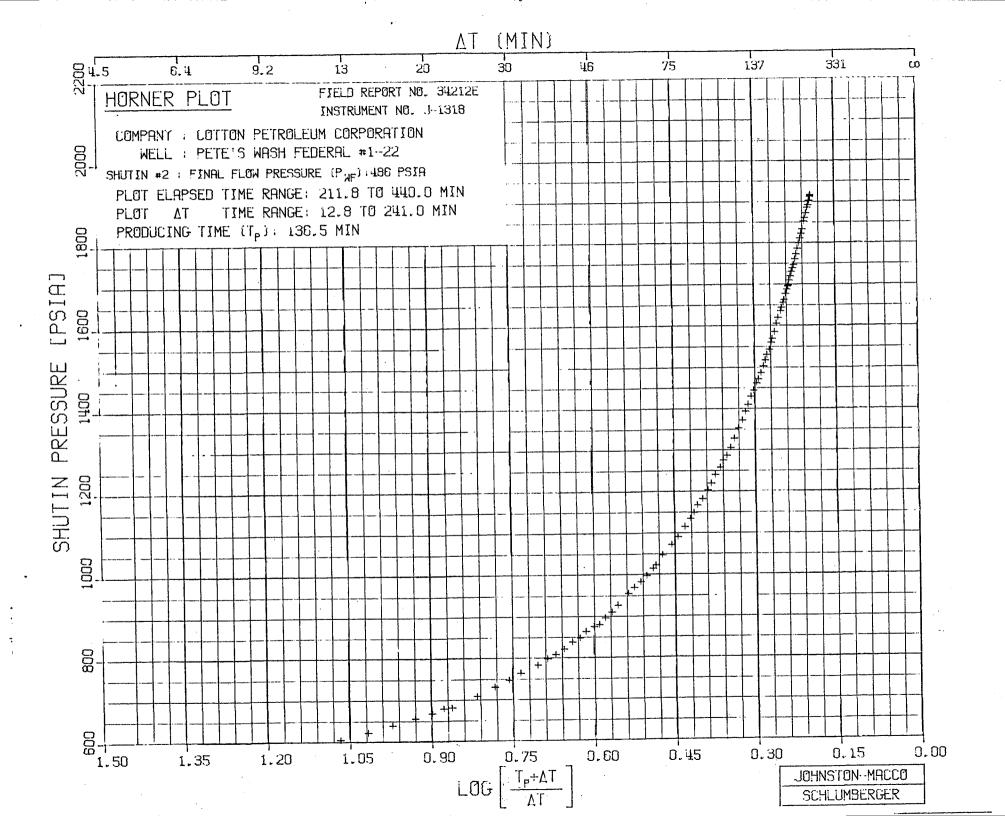
3. DST J =
$$\frac{Q}{P_o - P_f}$$
 Theoretical J = $\frac{7.08 \times 10^{-1} \text{ Kh}}{\mu \beta \ln (r_e/r_w)}$ Assumed $\ln (r_e/r_w) = 7.60$

4. P.S. =
$$[P_o \times 2.309 \text{ ft./PSI}]$$
 - [Recorder depth to sea level.]

5. Radius of investigation,
$$r_i = \sqrt{\frac{Kt}{400\mu c}}$$
 where $t = time$ in days

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by





LOG LOG PLOT

JOHNSTON-MACCO SCHLUMBERGER

COMPANY : COTTON PETROLEUM CORPORATION

WELL : PETE'S WASH FEDERAL #1-22

FIELD REPORT NO. 34212E INSTRUMENT NO. J-1318

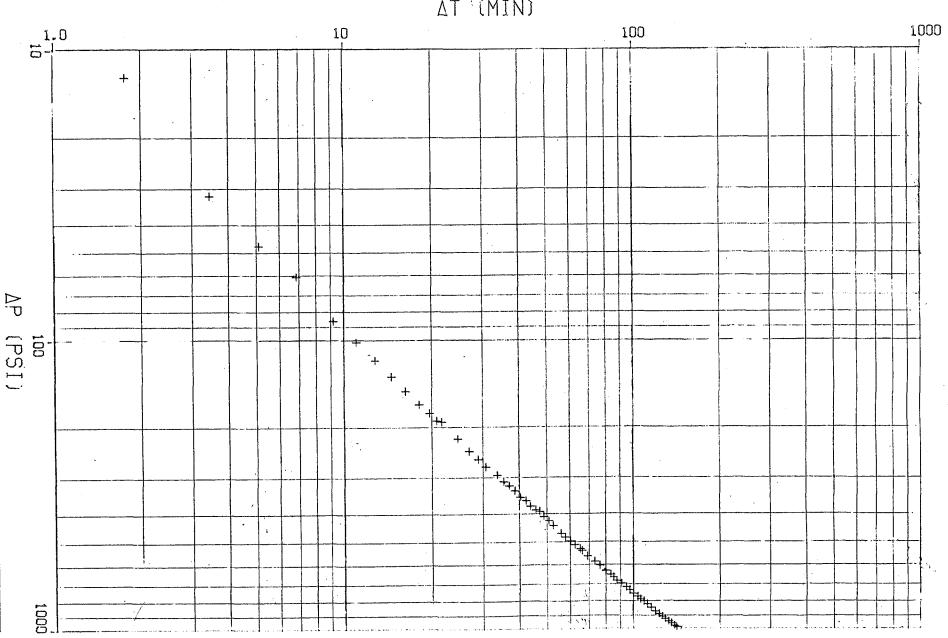
SHUTIN #2 :

FINAL FLOW PRESSURE $(P_{\mathrm{NF}}): 486$ PSIA.

PLOT ELAPSED TIME RANGE: 200.8 TO 340.5 MIN

TIME RANGE: 1.8 TO 141.4 MIN. PLOT





LOG LOG PLOT

COMPANY : LOTTON PETROLEUM CORPORATION

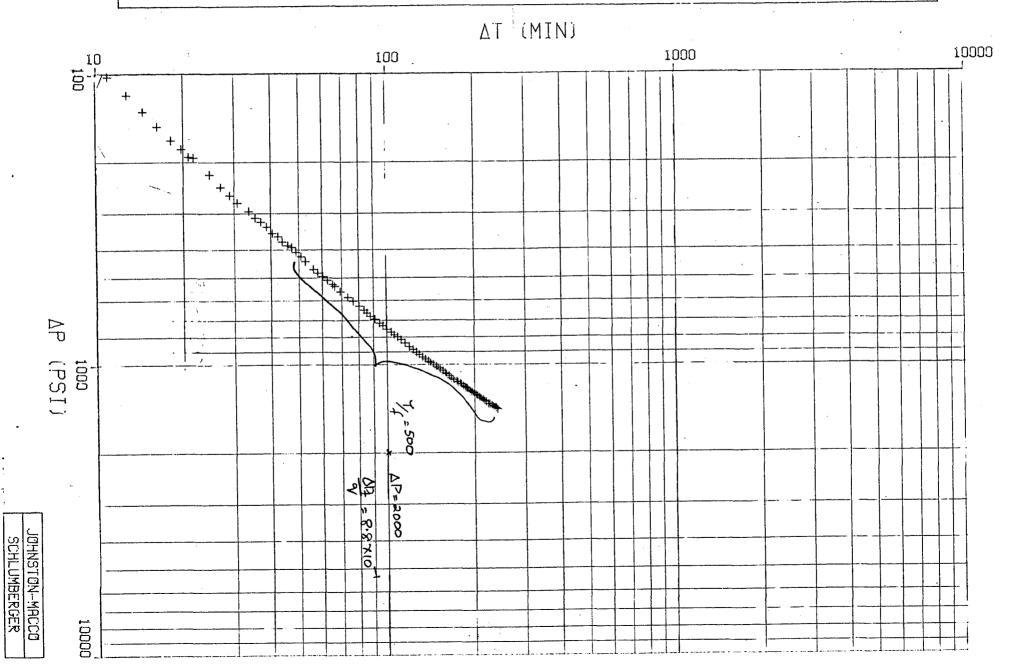
WELL : PETE'S WASH FEDERAL #1-22

FIELD REPORT NO. 34212E INSTRUMENT NO. J-1318

SHUTIN #2 :

FINAL FLOW PRESSURE (P_{NE}): 496 PSIA

PLOT ELAPSED TIME RANGE: 210.1 TO 440.0 MIN PLOT AT TIME RANGE: 11.0 TO 241.0 MIN



WELL IDENTIFICATION

: PETE'S WASH FEDERAL #1-22 1. WELL : COTTON PETROLEUM CORPORATION 2. COMPANY : 717 - 17TH STREET, SUITE 2200 3 -: DENVER, COLORADO 80202 4. : SAME 5. CUSTOMER 6. 8. FIELD * WILDCAT ; DUCHESNE 9. COUNTY : UTAH 10. STATE/PROV. : SEC. 22, T10S R17E 11. LOCATION : KOERNER (VERNAL) 12. TECHNICIAN 13. TEST APPROVED BY * MR. R.J. FIRTH : 11-24-81 14. TEST DATE 15. DEPTH REFERENCE : KELLY BUSHING 16. DEPTH REFERENCE ELEVATION : S.L. 5865. FT

HOLE INFORMATION

1. THE HOLE IS STRAIGHT.

2. TOTAL DEPTH : 10925. FT 3. OPEN HOLE DIAMETER : 7.87 IN

MUD INFORMATION

1. MUD TYPE SALT-LIG
2. MUD WEIGHT SOUND WEIGHT SOUND WEIGHT SEC
3. MUD VISCOSITY SOUND SO

TEST INFORMATION

1. FIELD REPORT NUMBER : 34212E

2. TEST TYPE : M.F.E. OPEN HOLE

3. TEST NUMBER ;

4. TELEFLOW IN USE ? : NO

5. SSDR DR J-300 IN USE ? : NO

6. SPRO IN USE ? RO

7. PTSDL IN USE ? F NO

TEST STRING INFORMATION

	COMPONENT	EFFEC	TIVE	FLOW PATH	
Ħ	NAME	I.D. (IN)	0.D. (IN)	LENGTH (FT)	J/M CODE
	AND MAY AND				
				40000	
1	DRILL PIPE	3.80	4.50	10280.	
2	DRILL COLLARS	2.25	6.75	526.	
3	TEST TOOL STRING	0.93	5.00	117.	

TEST STRING PLACEMENT

1. TEST TYPE CODE 1 - ON BOTTOM

2. PACKER DEPTHS

: 10843. FT & 10848. FT

TEST ZONE DESCRIPTION

			PRODU	CTION ZONE	
	FORMATION NAME	TOP (FT)	BOTTOM (FT)	THICKNESS (FT)	POROSITY (%)
	page and any one page and any one and any page on the same and the other same and the same and				
1	MESA VERDE			-	S.

TEST CONDITIONS

1. BOTTOMHOLE CHOKE(S) EFF. INTERNAL DIA. : 0.93 IN

2. LIQUID CUSHION TYPE FRESH WATER

3. CUSHION LENGTH : 1000. FT

4. CUSHION WEIGHT : 8.33 LB/GAL

TEST TOOL SAMPLE CHAMBER RECOVERY DATA

SAMPLE PRESSURE :

260. PSIG

OIL GRAVITY

DEG. API @

DEG F

GAS/OIL RATIO :

FT3/BBL

GAS/LIQUID RATIO :

FT3/BBL'

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME		RESISTI	ITY	CHLORIDES	
GAS	2.18 F					
OIL (TRACE) WATER	C:	C .	OHM-M @	DEG F	FFM	
MUD TOTAL LIQUID	C:		OHM-M @	DEG F		
RECOVERY INFORMA	TION		Ma No	A P. T	E.E.G.Y.G.Y.T.11.Y.Y.V	601
DESCRIPT	ION	FEET	X X OIL H20 OTH	API DEG. DEG.F	RESISTIVITY OHM-M DEG.F	CHL PPM
1 GAS & MUD CUT 2 WATER CUSHION .	WATER	99 1000	95 5	una para anta para en en entre entre entre entre	0.65 60	8163.

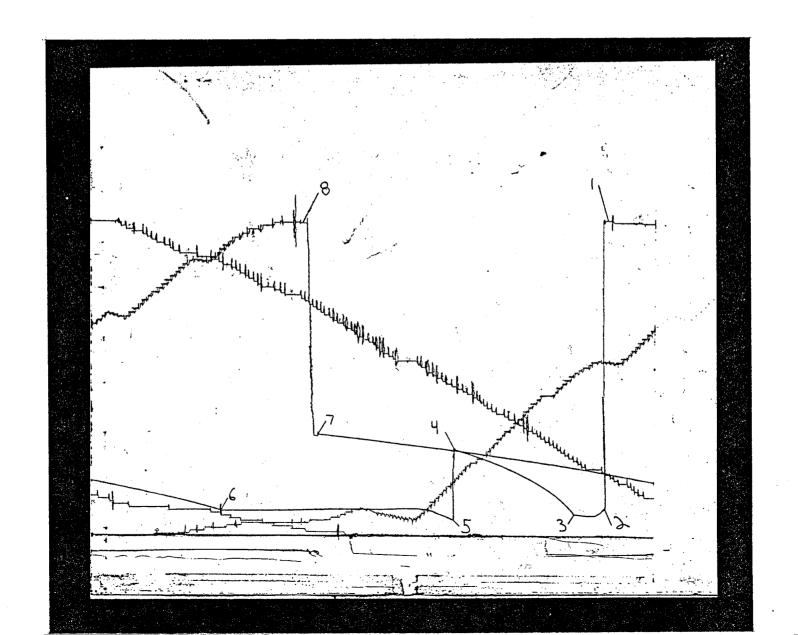
SURFACE INFORMATION

	DESCRIPTION	TIME	PRESSURE	CHOKE
1	SET PACKER	0714		
2	OPENED TOOL	0719		1/4"
3	SURFACE BUBBLE			I I
4	CLOSED FOR INITIAL SHUT-IN	0735	2.5	**
5	GAS TO SURFACE	0835		н
6	FINISHED SHUT-IN	0836	-	н
7	RE-OPENED TOOL	0838	2	H
8	•	0846	3	11
9	•	0849	5	11
10		0850	6	11
11		0855	8	**
12		0859	7.5	**
13		0901	7	1/8"
14		0905	7	it .
15		0936	7.5	#1
16		1005	7	FF .

				CHOKE
	DESCRIPTION	TIME	PRESSURE	SIZE
i 7		1038	7	11
18	CLOSED FOR FINAL SHUT-IN.	1039		##
	FINISHED SHUT-IN	1439	-	11
20	PULLED PACKER LOOSE	1442		**

IELD REPORT NO.:	34212 E	CAPACITY:	9000#

JOHNSTON Schlumberger



JOHNSTON

Schlumberger

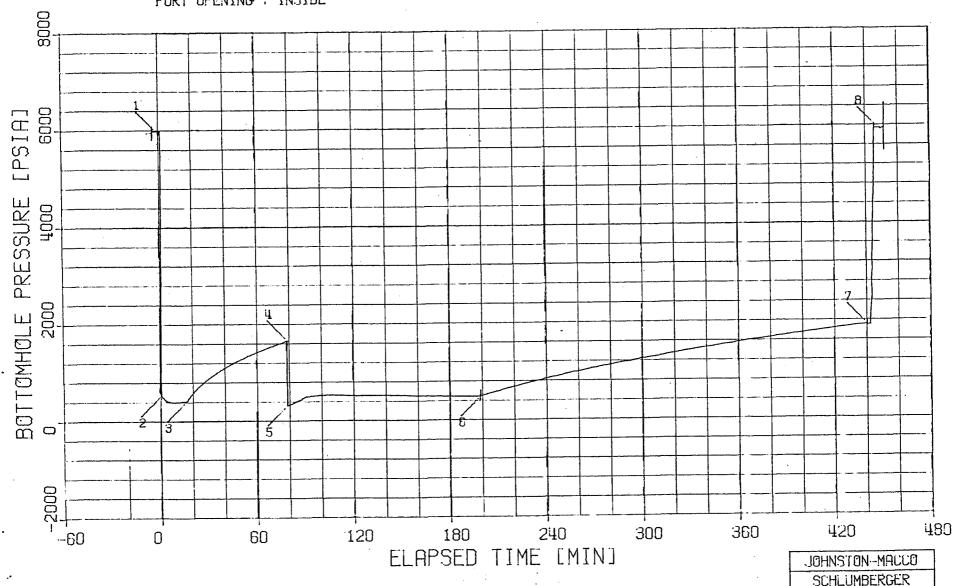
computerized data_ analysis

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 34212E INSTRUMENT NO. J-1318

DEPTH : 10811 FT CAPACITY : 9000 PSI PORT OPENING : INSIDE COMPANY : COTTON PETROLEUM CORPORATION

WELL: PETE'S WASH FEDERAL #1-22



***** * WELL TEST DATA PRINTOUT * *********

FIELD REPORT # : 34212E

INSTRUMENT # : J-1318

CAPACITY EPSIJ : 9000.

COMPANY : COTTON PETROLEUM CORPORATION

DEPTH [FT] : 10811.0 PORT OPENING : INSIDE

WELL : PETE'S WASH FEDERAL #1-22

TEMPERATURE [DEG F] : 200.0

LABEL POINT INFORMATION *************

TIME

BOT HOLE

ELAPSED PRESSURE

OF DAY DATE

TIME, MIN PSIA # HH:MM:SS DD-MM EXPLANATION

等亲亲 医亲头牙关关头 化苯化去苯 医氏试验检验检验检验检验检验检验检验检验 医格里氏试验检尿 医克里氏试验检尿病

1	7:17:39	24-0C	HYDROSTATIC MUD		-1.35	5978.78
			START FLOW		0.00	532.65
3	7:35: 2	24-DC	END FLOW & START S	HUT-IN	16.03	417.32
4	8:38: 1	24-0C	END SHUT-IN		79.01	1654.54
5	8:37:34	24-0C	START FLOW		78.57	314.45
6	10:38: 4	24-DC	END FLOW & START S	MI-TUH	199.07	485.60
7	14:39: 2	24-0C	END SHUT-IN		440.03	1916.09
8	14:46:48	24-0C	HYDROSTATIC MUD		447.80	5938.64

SUMMARY OF FLOW PERIODS **********

	START	END		START	END
	ELAPSED	ELAPSED	DURATION	PRESSURE	PRESSURE
PERIOD	TIME, MIN	TIME, MIN	MIN	PSIA	PSIA
****	*****	******	*****	******	*****
1	0.00	16.03	16.03	532.65	417.32
**					
2	78.57	199.07	120.50	314.45	485.60

SUMMARY OF SHUTIN PERIODS ********

	START	END		START	END	FINAL FLOW	
	ELAPSED	ELAPSED	DURATION	PRESSURE	PRESSURE	PRESSURE	PRODUCING
		TIME, MIN					TIME, MIN
*****	*****	******	*****	*****	******	*******	******
٠	4 1 67	75 44	62.98	417.32	1.654.54	417.32	16.03
1	16.03	79.01	02.70	41/.32	1074.74	71/.02	
2	199.07	440.03	240.96	485.60	1916.09	485.60	136.53

2

TEST PHASE : FLOW PERIOD # 1

TIME				BOT HOLE
OF DAY	DATE	ELAPSED	DELTA	PRESSURE
HH: MM:SS	DD-MM	TIME, MIN	TIME, MIN	PSIA
*****	****	*****	*******	****
7:19: 0	24-0C	0.00	0.00	532.65
7:29: 0	24-0C	10.00	10.00	398.20
7:35: 2	24-0C	16.03	16.03	417.32

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 417.32 PRODUCING TIME [MIN] = 16.03

LOG TIME BOT HOLE PRESSURE DELTA P HORNER DF DAY DATE ELAPSED DELTA PSI TIME HH: MM: SS DD-MM TIME, MIN TIME, MIN PSIA 7:35: 2 24-0C 16.03 0.00 417.32 0.00 17.03 1.00 464.37 47,05 . 1.231 7:36: 2 24-00 0.955 508.27 90.95 7:37: 2 24-0C 18.03 2.00 3.00 547.97 130.65 0.802 7:38: 2 24-0C 19.03 0.700 7:39: 2 24-0C 20.03 4.00 586.33 169.01 202.71 21.03 5.00 620.03 0.624 7:40: 2 24-00-652.98 235.66 0.565 22.03 6.00 7:41: 2 24-00 0.517 267.25 7.00 684.57 7:42: 2 24-00 23.03 298.16 0.478 8.00 715 .. 48 7:43: 2 24-00 24.03 328.21 0.444 7:44: 2 24-0C 25.03 9.00 745.53 7:45: 2 24-0C 26.03 10.00 774.30 356.98 0.415 829.27 411.95 0.368 28.03 12.00 7:47: 2 24-00 463.08 0.331 880.40 30.03 14.00 7:49: 2 24-0C 927.23 509.91 0.301 ·7:51: 2 24-0C 32.03 16.00 0.277 7:53: 2 24-0C 34.03 18.00 972.65 555.33 20.00 1017.44 600.12 0.256 7:55: 2 24-0C 36.03 640.26 0.238 38.03 22.00 1057.58 7:57: 2 24-0C 1097.72 680.40 0.222 24.00 7:59: 2 24-0C 40.03 717.71 0.209 8: 1: 2 24-0C 42.03 26.00 1135.03 0.197 44.03 28.00 1170.73 753.41 8: 3: 2 24-0C 788.40 0.186 46.03 30.00 1205.72 8: 5: 2 24-0C 867.69 0.164 35.00 1285.01 8:10: 2 24-DC 51.03 946.60 0.146 40.00 1363.92 8:15: 2 24-8C 56.03 8:20: 2 24-0C 61.03 45.00 1434.53 1017.21 0.132 66.03 50.00 1498.62 1081.30 0.121 8:25: 2 24-0C 0.111 71.03 55.00 1559.16 1141.84 8:30: 2 24-0C 1196.86 0.103 76.03 60.00 1614.18 8:35: 2 24-0C 62.98 1654.54 1237.22 0.098 8:38: 1 24-0C 79.01

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY HH:MM:SS ******	DATE DD-MM ****	ELAPSED TIME, MIN ******	DELTA TIME, MIN *****	BOT HOLE PRESSURE PSIA *******
8:37:34 8:47:34 9: 7:34 9: 7:34 9:17:34 9:27:34 9:37:34 9:47:34 9:57:34 10:7:34 10:38:4	24-0C 24-0C 24-0C 24-0C 24-0C 24-0C 24-0C 24-0C 24-0C 24-0C 24-0C 24-0C	78.57 88.57 98.57 108.57 118.57 128.57 138.57 148.57 158.57 168.57 198.57	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 110.00 120.00	314.45 466.93 517.35 517.88 507.20 507.74 505.62 498.55 486.91 479.33 474.53 474.53 478.41 485.60

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE EPSIA1 = 485.60
PRODUCING TIME EMIN3 = 136.53

			•			
TIME				BOT HOLE		LOG
OF DAY	DATE	ELAPSED	DELTA	PRESSURE	DELTA P	HORNER
HH:MM:SS	DD-MM	TIME, MIN	TIME, MIN	PSIA	PSI	TIME
*****	****	****	******	******	*****	*****
10:38: 4	24-8C	199.07	0.00	485.60	0.00	
			1.00	491.11	5.51	2.138
10:40: 4			2.00		15.20	1.841
10:41: 4		202.07			26.67	1.668
		203.07			37.12	1.546
		204.07				1.452
10:44: 4					54.50	1.376
		206.07			62.62	1.312
			8.00		73.47	
		208.07			84.31	
10:48: 4					93.33	· ·
		211.07				
		213.07				
10:54: 4		215.07		633.89		
		217.07				
10:58: 4			20.00			
		221.07				
	24-0C	223.07			215.08	
11: 4: 4						
	24-0C		28.00		269.75	
11: 8: 4		229.07				
11:13: 4						
11:18: 4						
11:23: 4	24-0C	244.07	45.00	869.76	384.16	0.606

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = 485.60

PRODUCING TIME [MIN] = 136.53

TIME		•		BOT HOLE		LOG
OF DAY	DATE	FLAPSED	DELTA			
		TIME, MIN			PSI	
*****				*****		
11:28: 4	24-0C	249.07	50.00	903,94	418.34	0.572
11:33: 4	24-0C	254.07	55.00	946.38	460.78	0.542
11:38: 4	24-0C	259.07	60.00	980.18	494.58	0.515
11:48: 4	24-0C	269.07	70.00	1051.99	566.39	0.470
11:58: 4	24-0C	279.07	80.00	1113.55	627.95	0.432
12: 8: 4	24-0C	289.07	90.00	1178.23	692.63	0.401
12:18: 4	24-0C	299.07	100.00	1241.45	755.85	0.374
12:28: 4	24-0C	309.07	110.00	1293.72	808.12	0.350
12:38: 4	24-0C	319.07	120.00	1355.82	8.70.22	0.330
12:48: 4	24-0C	329.07	130.00	1413.98		
12:58: 4	24-0C	339.07	140.00	1465.05	979.45	0.296
13: 8: 4	24-0C	349.07	150.00	1515.74		
13:18: 4	24-0C	359.07	160.00	1566.62		
13:28: 4	24-0C	369.07		1620.09		
13:38: 4	24-0C	379.07	180.00	1659.89	1174.29	0.245
13:48: 4	24-0C	389.07	190.00	1706.29	1220.69	0.235
13:58: 4	24-0C	399.07	200.00	1746.60	1261.00	0.226
14: 8: 4	24-0C.	409.07	210.00	1794.89	1309.29	
14:18: 4	24-0C	419.07	220.00	1835.64		
14:28: 4	24-0C	429.07		1875.68		
14:38: 4	24-00	439.07	240.00	1911.94		
14:39: 2	24-00	440.03	240.96	1916.09	1430.49	0.195

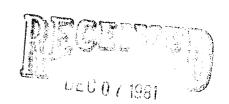
JOHNSTON

Schlumberger

computerized data analysis

COMPUTERIZED DATA ANALYSIS

DECEMBER 3, 1981



DIVISUR

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION PRODUCED ENOUGH RESERVOIR FLUTONG FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT BUT ADEQUATE SHUT-IN BUILD-UP DID NOT OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. AFTERFLOW WAS STILL IN EFFECT ON THE INITIAL SHUT-IN BUILD-UP TO THE EXTENT THAT THE PLOT IS CONSIDERED UNRELIABLE FOR ANALYSIS. RESERVOIR PARAMETERS WERE CALCULATED BY THE MCKINLEY METHOD.

- 1. FLOW RATE: A FLOW RATE OF 2 BBLS/DAY OF LIQUID WAS NOTED DURING TEST.
- 2. <u>RESERVOIR PRESSURE</u>: MAXIMUM RESERVOIR PRESSURE WAS ESTIMATED TO BE <u>5160 P.S.I.G</u>. AT RECORDER DEPTH USING A GRADIENT OF <u>.47 P.S.I./FT</u>.
- 3. PERMEABILITY: THE CALCULATED TRANSMISSIBILITY FACTOR OF .134 MD.-FT./CP. INDICATES AN AVERAGE EFFECTIVE PERMEABILITY TO LIQUID OF .0018 MD. FOR THE REPORTED 26 FOOT NET INTERVAL. THE CALCULATIONS WERE BASED ON A MCKINLEY SLOPE OF 2432 P.S.I./LOG CYCLE OBTAINED FROM THE FINAL SHUT-IN BUILD-UP PLOT. IT WAS ASSUMED FOR THESE CALCULATIONS: (A) VISCOSITY .35 CP., (B) FORMATION VOLUME FACTOR 1.022 BBL/BBL. THESE FIGURES WERE OBTAINED FROM THE AVAILABLE TECHNICAL LITERATURE
- 4. WELLBORE DAMAGE: THE CALCULATED DAMAGE RATIO OF __81 INDICATES THAT NO WELLBORE DAMAGE IS PRESENT AT THE TIME AND CONDITIONS OF THIS TEST.
- 5. RADIUS OF INVESTIGATION: THE CALCULATED RADIUS OF INVESTIGATION OF THIS TEST IS $\frac{2}{1}$ FEET BASED ON AN ASSUMED POROSITY OF 8%, COMPRESSIBILITY OF 3.2 X $\frac{10^{-6}}{1}$, AND OTHER ASSUMPTIONS MADE IN NUMBER 3 ABOVE.

6. GENERAL COMMENTS: THE FORMATION EXHIBITS THE CHARACTERISTICS OF RELATIVELY LOW PERMEABILITY EFFECTIVE TO THE RESERVOIR FLUID AND INDICATES THE ABSENCE OF WELLBORE DAMAGE.

E. ALLEN KLINGENSMITH

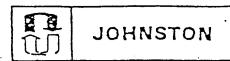
DENVER RESERVOIR EVALUATION DEPARTMENT

COTTON PETROLEUM CORPORATION PETE'S WASH FEDERAL #1-22 DUCHENSE COUNTY, UTAH SEC. 22, T10S R17E 11018' TO 11054', TEST #4

FIELD REPORT #34178 E

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation

Reservoir Engineering Data



Recorder No. <u>J-1318</u>				ج F	ield Repo	rt No	34178 E
Domoge Ratio	DR	.81		Effective Tronsmissibility TO LIQUID	<u>Kh</u> μB	.134	Md-ft. Cp.
Moximum Reservoir Pressure ESTIMATED	Р.,	5160	P.S.I.G.	Effective Transmissobility	<u>Κħ</u> μΒ		<u>Мо-fi,</u> Ср.
Slope of Shut-in Curve CALCULATED	м	2432	PSI/log cycle	Flow Rate LIQUID	Q	2	Bbl./day
Potentiometric Surface (Datum Plane, Sea Level)	PS		ft.	Pressure Grodient ESTIMATED		.47	PSI ft.
Productivity Index	ΡI	.0004	Bbl./doy/PSI -	Gas Oil Ratio	GOR		CF/Bbl.
Rodius of Investigation		2	ft.	K (Effective to LIQUID)	.0018	Md.

Assumptions made for Calculations for Liquid Recoveries

- 1. Q is averaged at a constant rate.
- 2. Pr is formation flowing pressure at a constant rate.
- 3. Formation flow is taken as single phase flow.

 If gas is produced at surface, phase separation is assumed to have occurred in drill pipe.
- 4. Radial flow is assumed.
- 5. For the purpose of calculating EDR where specific reservoir parameters are not available it is assumed that:

Effective permeability, K, will fall between	1 to 200 md
Formation parasity, 6, will fall between	0.1 to 0.3
Fluid compressibility, c, will fall between	10- to 10-
Fluid viscosity, μ , will fall between	0.05 to 50 cp.
Well bore radius, r., will fall between	37, " to 41, "
Which gives an average value for the function log K	5.5

6. Other standard radial flow, equilibrium assumptions.

Empirical Equations:

1. EDR =
$$\frac{P_o - P_f}{M(\log T + 2.65)}$$
 where M $\cdot \frac{P_i - P_{io}}{\log Cycle}$

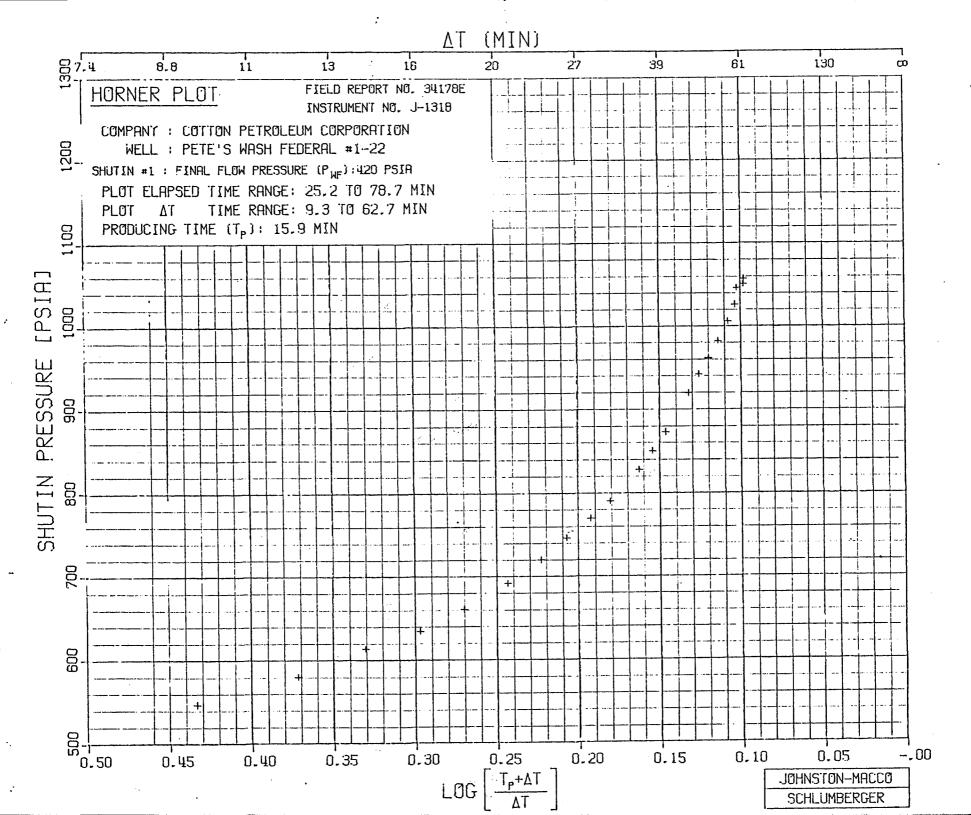
2. Transmissibility
$$\frac{Kh}{\mu B} = \frac{162.6 Q}{M}$$

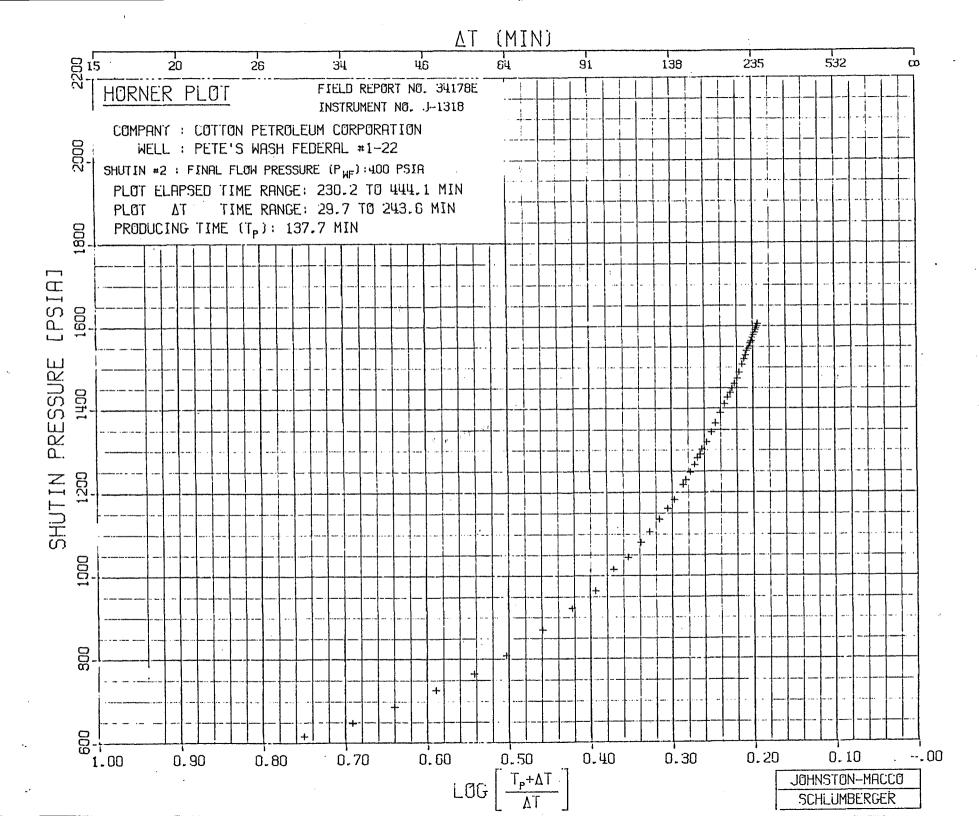
3. DST J =
$$\frac{Q}{P_e - P_e}$$
 Theoretical J = $\frac{7.08 \times 10^{-1} \text{ Kh}}{\mu \beta \ln (r_e/r_w)}$ Assumed In $(r_e/r_w) = 7.60$

4. P.S. =
$$[P_{\bullet} \times 2.309 \text{ ft./PSI}]$$
 - $[Recorder depth to sea level.]$

5. Radius of investigation,
$$r_i = \sqrt{\frac{Kt}{40 \phi \mu c}}$$
 where $t = time$ in days

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for tions, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for





LOG LOG PLOT

JOHNSTON-MACCO SCHLUMBERGER COMPANY : COTTON PETROLEUM CORPORATION

WELL : PETE'S WASH FEDERAL #1-22

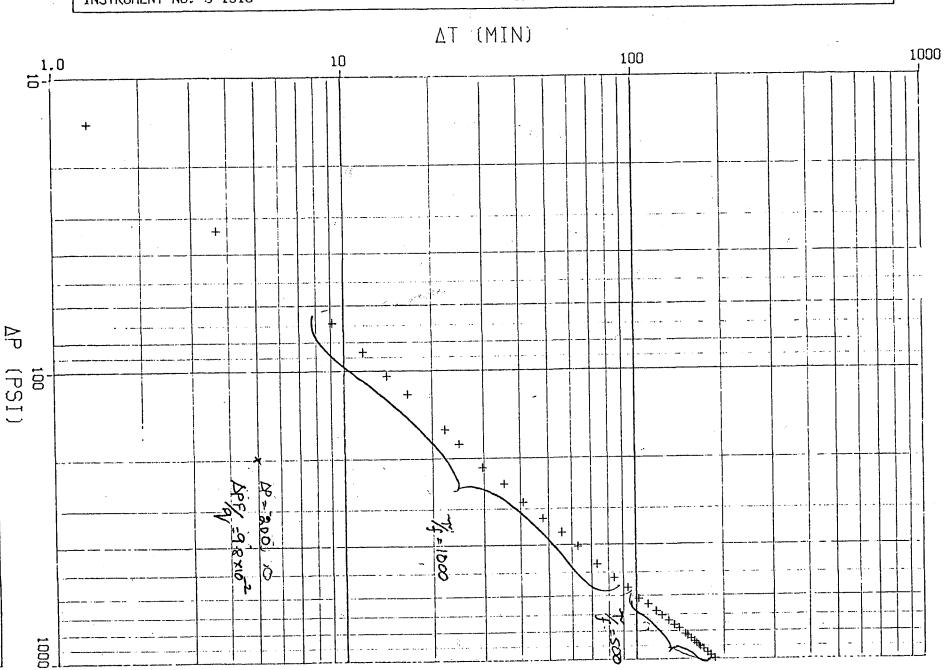
FIELD REPORT NO. 34178E INSTRUMENT NO. J-1318

SHUTIN #2 :

FINAL FLOW PRESSURE (P $_{\mathrm{MF}}$): 400 PSIA

PLOT ELAPSED TIME RANGE: 201.8 TO 386.4 MIN

PLOT AT TIME RANGE: 1.3 TO 185.9 MIN



WELL IDENTIFICATION

: PETE'S WASH FEDERAL #1-22 1. WELL. : COTTON PETROLEUM CORPORATION 2. COMPANY ; 717 - 17TH STREET, SUITE 2200 DENVER, COLORADO 80202 4. 5. CUSTOMER 7. ; WILDCAT 8. FIELD : DUCHENSE 9. COUNTY ; UTAH 10. STATE/PROV. : SEC. 22, T105 R17E 11. LOCATION : ROSENBERG (VERNAL) 12. TECHNICIAN 13. TEST APPROVED BY : MR. R.J. FIRTH : 11-27-81 14. TEST DATE * KELLY BUSHING 15. DEPTH REFERENCE 16. DEPTH REFERENCE ELEVATION : S.L. O. FT

HOLE INFORMATION

1. THE HOLE IS STRAIGHT.

2. TOTAL DEPTH : 11054. FT 3. OPEN HOLE DIAMETER : 7.87 IN

MUD INFORMATION

: SALT-LIG 1. MUD TYPE 10.4 LB/GAL 2. MUD WEIGHT 3. MUD VISCOSITY 30-35 MARSH FUNNEL SEC 16.0 CC/30 MIN 4. CORRECTED WATER LOSS : 0.21 OHM-M 5. MUD RESISTIVITY 6. MUD RES. MEAS. TEMP. 7. MUD FILTRATE RESISTIVITY : 40.0 DEG F 0.15 OHM-M 8. MUD FILT. RES. MEAS. TEMP. : 40.0 DEG F 9. MUD CHLORIDES CONTENT : 66000.0 PPM BY WEIGHT

TEST INFORMATION

1. FIELD REPORT NUMBER : 34178E
2. TEST TYPE : M.F.E. OPEN HOLE
3. TEST NUMBER : 4
4. TELEFLOW IN USE ? : NO
5. SSDR OR J-300 IN USE ? : NO
6. SPRO IN USE ? : NO
7. PTSDL IN USE ? : NO

TEST STRING INFORMATION

#	COMPONENT NAME	EFFEC	TIVE D.D. (IN)	FLOW FATH LENGTH (FT)	J/M CODE
1	DRILL PIPE	3.80	4.50	10416.	:
2	DRILL COLLARS	2.25	6.75	554.	
3	TEST TOOL STRING	0.68	5.00	80.	

TEST STRING PLACEMENT

1. TEST TYPE CODE 1 - ON BOTTOM

2. PACKER DEPTHS

: 11013. FT & 11018. FT

TEST ZONE DESCRIPTION

			PRODU	JCTION ZONE	
	FORMATION NAME	TOP (FT)	BOTTOM (FT)	THICKNESS (FT)	POROSITY (%)
1	MESA VERDE		•	26.	8.

TEST CONDITIONS

1. BOTTOMHOLE CHOKE(S) EFF. INTERNAL DIA. : 0.68 IN

2. LIQUID CUSHION TYPE : FRESH WATER : 1000. FT

3. CUSHION LENGTH \$ 1000. FT 4. CUSHION WEIGHT \$ 8.33 LB/GAL

DEG F

TEST TOOL SAMPLE CHAMBER RECOVERY DATA

÷

SAMPLE PRESSURE

500. PSIG

DIL GRAVITY

DEG. AFI @

GAS/DIL RATIO

FT3/BBL

GAS/LIQUID RATIO :

FT3/BBL

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESISTI	JITY	CHLORIDES	
GAS OIL	3.00 FT3 CC				
WATER	CC	OHM-M @	DEG F	PPM	
MUD	0.0	OHM-M @	DEG F		
TOTAL LIQUID	00				
RECOVERY INFORMAT	רוסא	% %	AF1	RESISTIVITY	CHL
DESCRIPT	ION FE	· ·	DEG. DEG.F	OHM-M DEG.F	PPM
1 WATER CUSHION 2 MUD	1:	99 13		0.59 41	4000.

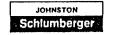
SURFACE INFORMATION

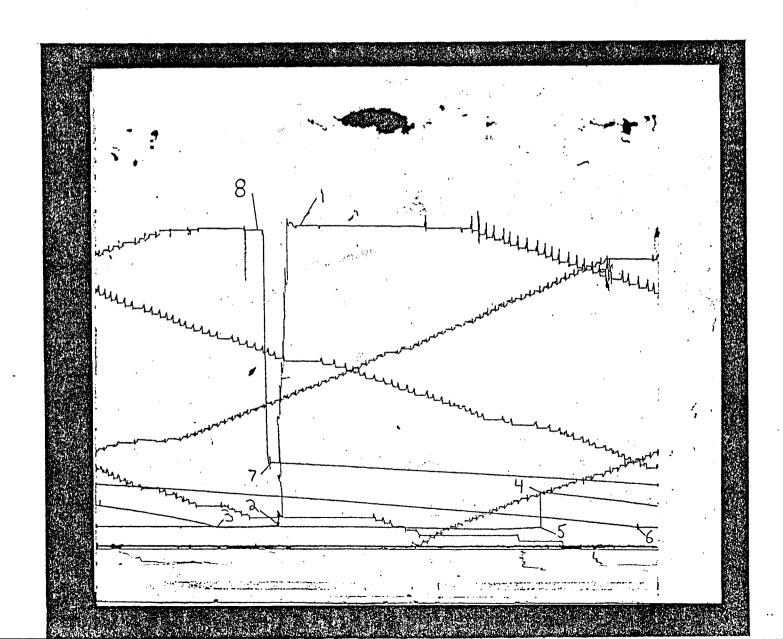
	DE	SCRIPTION	 	TIME	PRESSURE	CHOKE SIZE
1 2 3 4 5 6 7 8 9 10 11 12 13	SET PACKER OPENED TOOL SURFACE BUBBLES CLOSED FOR INITIAL FINISHED SHUT-IN RE-OPENED TOOL	¥ ×		0622 0623 0623 0638 0642 0742 0743 0745 0759 0811 0830 0850 0920	2.25 °C 2. °C 2.25 °C 11.0 °C 11.0 °C 18.00 °C 1	1/4"
14 15				0937 0944	7.50 " 6.00 "	

	***************************************		•	CHOKE
	DESCRIPTION	TIME	PRESSURE	SIZE
4 Z	CLOSED FOR FINAL SHUT-IN	0947		11
	FINISHED SHUT-IN	1347	-	11
-	PULLED PACKER LOOSE	1348	-	-

1 22 g 2

IELD REPORT NO.:	34178 E	CAPACITY:	9000#	
NCTRUMENT NO .	J-1318	NUMBER OF REPORTS	8	





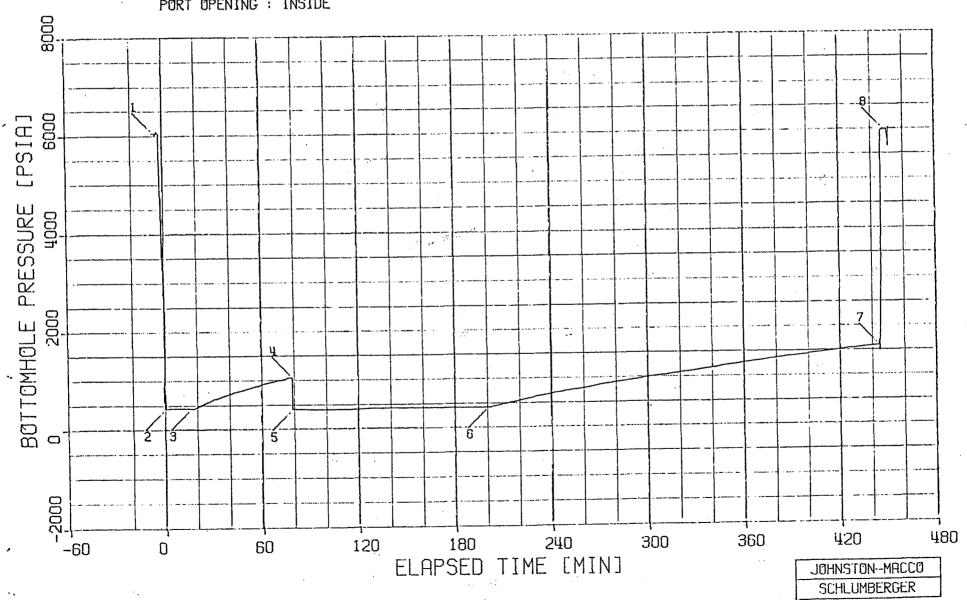
BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 34178E

INSTRUMENT NO. J-1318

DEPTH: 10980 FT CAPACITY: 9000 PSI PORT OPENING: INSIDE COMPANY: COTTON PETROLEUM CORPORATION

WELL: PETE'S WASH FEDERAL #1-22



* WELL TEST DATA PRINTOUT * **********

FIELD REPORT # : 34178E

INSTRUMENT # : J-1318 CAPACITY [PSI] : 9000.

DEPTH [FT] : 10980.0

FORT OPENING : INSIDE

TEMPERATURE [DEG F] : 205.0

COMPANY : COTTON PETROLEUM CORPORATION WELL : PETE'S WASH FEDERAL #1-22

LABEL POINT INFORMATION

TIME

BOT HOLE

OF DAY DATE

ELAPSED PRESSURE

HH:MM:SS DD-MM

EXPLANATION

TIME, MIN PSIA

1	6:17: 7	27 – מא	HYDROSTATIC MUD	-5.88	6054.38
			START FLOW	0.00	428.40
			END FLOW & START SHUT-IN	15.92	420.10
			END SHUT-IN	78.66	1057.35
			START FLOW	78.65	38 8. 77
			END FLOW & START SHUT-IN	200.47	400.29
			END SHUT-IN	444.08	1605.66
			HYDROSTATIC MUD	447.52	6000.01

SUMMARY OF FLOW PERIODS *******

PERIOD	TIME - MIN	END ELAPSED TIME, MIN *******	MIN	START PRESSURE PSIA *******	END PRESSURE PSIA *******
1 2	0.00	15.92 200.47	15.92 121.82	428.40	420.10 400.29

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN ******	MIN	START PRESSURE PSIA *******	END PRESSURE PSIA *******	FINAL FLOW PRESSURE PSIA ******	PRODUCING TIME, MIN
1	15.92	78.66	62.74	420.10	1057.35	420.10	15.92
2	200.47	444.08	243.61	400.29	1605.66	400.29	137.74

TEST PHASE : FLOW FERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
* * * * * * * *	****	****	******	****
6:23: 0 6:33: 0 6:38:55	27-NO	0.00 10.00 15.92	0.00 10.00 15.92	428.40 428.40 420.10

TEST PHASE : SHUTIN PERIOD # 1 FINAL FLOW PRESSURE [PSIA] = 420.10 PRODUCING TIME [MIN] = 15.92

TIME				BOT HOLE		LOG
OF DAY	DATE	ELAPSED	DELTA		DELTA P	HORNER
HH:MM:SS	DD-MM	TIME MIN	TIME, MIN	PSIA		TIME :
******		*****	******	******	****	****
***	******	*****				
6:38:55	27	15.92	0.00	420.10	0.00	
6:39:55		16.92	1.00	424.48	4.38	1.228
6:40:55		17.92	2.00	432.18	12.08	
		18.92	3.00	452.40		.0.800
6:41:55		19.92	4.00	468.10	48.00	
6:42:55		20.92	5.00	481.49		0.622
6:43:55		21.92	6.00	496.84		0.563
6:44:55			7.00			
6:45:55			8.00			
6:46:55		23.92	9.00			
6:47:55					5.	0.414
6:48:55					163.61	
6:50:55					193.07	
6:52:55					- W	
6:54:55						0.275
6:56:55						
6:58:55			20.00			
7: 0:55						
7; 2;55						
7: 4:55				745.87		
7: 6:55						
7: 8:55	27-80					
7:13:55	27 - א					_
7:18:55	27 - מא			•		
7;23;55	27-80					
7;28;55	27-NO	65.92				
7:33:55	27-NO	70.92				
7:38:55		75.92				
7:41:40	27-10	78.66	62.74	1057.35	637.25	0.098

1 2 8 2

3

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = 400.29

PRODUCING TIME EMIN3 = 137.74

****				BOT HOLE		LOG
TIME	D 4 T C -	EL ADCED	DELTA	PRESSURE	DELTA P	
DF DAY		ELAPSED		PSIA	PSI	TIME
HH: MM:SS	DD-MM.	TIME, MIN	I THE FHIR			
*****	****	******	******	*****	****	****
5-77-50	07 110	200.47	0.00	400.29	0.00	
9:43:28			1.00	411.12	10.83	2.142
9:44:28		201.47		420.09		
9:45:28		202.47	2.00		27.91	
9:46:28		203.47	3.00	428.20		
9:47:28		204.47	4.00	435.78		
9:48:28	27-NO	205.47	5.00	442.37		
9:49:28	27-NO	206.47	6.00	448.97		
9:50:28	27-NO	207.47	7.00	455.56	5527	
9:51:28	27-NO	208.47	8.00	462.16	61.87	
9:52:28	27-NO	209.47	9.00	468.75	68.46	
9:53:28		210.47	10.00	475.76	75.47	
9:55:28		212.47	12.00	490.06	89.77	1.096
9:57:28		214.47	14.00	505.02	104.73	1.035
9:59:28		216.47	16.00	517.81	117.52	0.983
10: 1:28		218.47	14	531.50	131.21	
10: 3:28		220.47		545.49	145.20	
10: 5:28		222.47	22.00	559.48	159.19	
		224.47		574.44		
10: 7:28			26.00	589.24		
10: 9:28		226.47	•	603.91		
10:11:28						
10:13:28		230.47		618.03		
10:18:28				645.41		
10:23:28		240.47		679.42	2/7.13	0.648
10:28:28		245.47		709-14	308.85	
10:33:28	27-NO	250.47		736.46	336.17	
10:38:28	27-10	255.47				
10:43:28	27-10	260.47			389.82	
10:53:28	27-NO	270.47	70.00			
11: 3:28	27-NO	280.47	80.00	902.96		
11:13:28		290.47	90.00	948.87	548.58	
11:23:28		300.47	100.00	1005.09	604.80	
11:33:28		310.47	110.00	1046.81	646.52	
11:43:28		320.47	120.00	1095.53	695.24	0.332
11:53:28			130.00	1140.42	740.13	0.314
12: 3:28		340.47	140.00		782.59	0.298
12:13:28		350.47			830.54	0.283
					878.52	
12:23:28					919.20	
12:33:28			180.00		965.51	
12:43:28		380.47			1005.32	
12:53:28		390.47			1041.86	
13: 3:28					1078.69	
13:13:28					1121.82	
13:23:28						
13:33:28					1157.71	
13:43:28					1191.22	
13:47: 5	27 - NO	444.08	243.61	1605.66	1205.37	0.195

Cotton Petroleum Corporation 717 17th Street, Suite 2200 Denver, Colorado 80202

Re: See Attached

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Faom 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse Clerk Typist

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

(FORM 9-329) (2/76) MB 42-RO 356

MONTHLY REPORT OF OPERATIONS

Lease No	U-43356			
Communitiz	zation Agreem	ent No. NA		
Field Name	Wildcat,			
Unit Name.	NA Peter	s Wowsh Un	<u>v+</u>	
Participatin;	g Area <u>NA</u>		<u></u>	
County	Duchesne		State_ <u>Utah_</u>	
Operator C	otton Petrol	eum Corpora	ation	
☐ Amended				

The following is a correct report of operations and production (including status of all unplugged wells) for the month of January , 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
							2		
1-22	NW/SW	105	17E	WO	Pipelin	e.	. As		
	Sec.22			"					
								•	
							# - *		
				•					·
	!					!			
				1					
				l					
	İ			·					
							• :		

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
	(5523)		(5523).
On hand, Start of Month	· · · · · · · · · · · · · · · · · · ·	XXXXXXXXXXXXXXXX	xxxxxxxxxxxxxx
*Produced			
*Sold			XXXXXXXXXXXXXXXX
Spilled or Lost		XXXXXXXXXXXXXXXX	xxxxxxxxxxxxxxx
Flared or Vented	xxxxxxxxxxxxxxx		XXXXXXXXXXXXXXX
'Used on Lease		· · · · · · · · · · · · · · · · · · ·	XXXXXXXXXXXXXXX
Injected		3	
Surface Pits	XXXXXXXXXXXXXXXXX	xxxxxxxxxxxxxx	
Other (Identify)		· · ·	
On hand, End of Month		xxxxxxxxxxxxxx	XXXXXXXXXXXXXXX
API Gravity/BTU Content	Mal	: 	xxxxxxxxxxxxxx
Authorized Signature: Title: Division Production Manager	Address: 7	17 17th St., Suite	2200, Denver, CO 8020

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

(FORM 9-329) (2/76) OMB 42-RO 356

MONTHLY REPORT OF OPERATIONS

Lease No	U-43356		_
Communitie	_	ent No. <u>NA</u>	
Unit Name	NA Peteo	Wash Unit	_
Participatin	g AreaNA		_
County	Duchesne	State <u>Utah</u>	
Operator _C	otton Petrol	eum Corporation	-
☐ Amende	d Report		

The following is a correct report of operations and production (including status of all unplugged wells) for the month of February 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
				:					
1-22	NW/SW Sec.22	105	17E	WO	Pipeli	ne.			
			;	·	-		6.1 5.5 8.5 8.5		·
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) }		
							: 1 : :		
				·			; 5		·
		İ					; ; ;	:	
								i.)	

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxx
*Produced			
*Sold			XXXXXXXXXXXXXXX
Spilled or Lost		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx
Flared or Vented	xxxxxxxxxxxxxxx	1	XXXXXXXXXXXXXX
'Used on Lease			xxxxxxxxxxxxxx
'Injected		·	
Surface Pits	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxx	
Other (Identify)			
On hand, End of Month		xxxxxxxxxxxxx	XXXXXXXXXXXXXXX
API Gravity/BTU Content	21/2	·	xxxxxxxxxxxxxx
Authorized Signature: Authorized Signature: Manage		17 17th St., Suite	2200, Denver, CO 80202



Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

March 12, 1982

Cotton Petroleum Corporation 717 17th Street, Suite 2200 Denver, Colorado 80202

Re: See attached

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U. S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

** If we do not hear from your office within fourteen days, this file will be turned over to the attorney at the Division of Oil, Gas and Mining for legal action.

Thank you for your cooperation relative to the above.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse Clerk Typist Well No. Duncan Federal #1-10 Sec. 28, T. 9S, R. 17E. Duchesne County, Utah (December 1981- February 1982)

Well No. Pete's Wash #1-22 Sec. 22, T. 10S, R. 22E. Duchesne County, Utah (December 1981- February 1982)

Well No. Love Unit #B 2-3 Sec. 3, T. 11S, R. 21E. Uintah County, Utah (December 1981- February 1982)

Well No. Love Unit 4-1 Sec. 4, T. 11S, R. 21E. Uintah County, Utah (December 1981- February 1982)

SECOND NOTICE ON ALL ABOVE WELLS.

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

(FORM 9-329) (2/76) IB 42-RO 356

MONTHLY REPORT OF OPERATIONS

Lease No	U-43356			
		ement i	NoNA	
Field Name	Wildcat			
Unit Name	NA 🔸	Septer	Wash Unit	
Participating	AreaN	Α		
County)uchesne	;	State <u>Utah</u>	
Operator Co	otton Pet	roleum	Corporation	
- p				

OPERATIONS

Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
1-22	NW/SW	105	17E	WO P	peline.				
	Sec.22						. 5		
		<u> </u>					1.1		
		İ							
							; ;;,		-
						i	è		
							Ţ.		
							4.		
							*		-
							2 3		
							. 1		

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
On hand, Start of Month		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxx
*Produced	·	·	
*Sol d			xxxxxxxxxxxx
Spilled or Lost		xxxxxxxxxxxxxx	XXXXXXXXXXXXXXX
Flared or Vented	XXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXX
'Used on Lease			XXXXXXXXXXXXXXX
Injected			
Surface Pits	xxxxxxxxxxxxxxx	XXXXXXXXXXXXXXXXX	
Other (Identify)	•		
On hand, End of Month	/ /	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
API Gravity/BTU Content	1670		xxxxxxxxxxxxx
Authorized Signature: 15000	1/X/0/ Address: 7	<u> 17 17th St., Suite</u>	2200, Denver, CO 80202
Division Production Manage	ger -	Page 1 of	1

Cotton Petroleum Corporation

A United Energy Resources, Inc. Company

717 17th Street/Energy Center One/Suite 2200/Denver, Colorado 80202



March 17, 1982



DIVISION OF OIL, GAS & MINING

State of Utah Natural Resources & Energy 4241 State Office Building Salt Lake City, Utah 84114

Attn: Cari Furse

Dear Cari:

Enclosed are the Report of Operations for the months of January, February, and March. Also, enclosed are the reports, that were previously sent, for the months of August through December.

If you need any further information, please contact me.

Swinke like

Sincerely,

COTTON PETROLEUM CORPORATION

Teri Greenhalgh

Engineering Assistant

enclosures

UN ED STATES SUBMIT DEPARTMENT OF THE INTERIOR

SUBMIT IN DUPLICATE (Section structions on reverse side)

Form approved. Budget Bureau No. 42-R355.

5. LEASE DESIGNATION AND SERIAL N

	GE	EOLOGICAL	_ SURV	EY					U-433		
WELL CO	MPLETION C	OR RECOM	PLETIO	N R	EPORT A	AN	D LOG	*	6. IF INDI	AN, ALLO	OTTEE OR TRIBE NAM
1a. TYPE OF WE	LL: OIL WELL	GAS WELL	DRY	٦ .	Other	3.	_		7. UNIT AC	REEMEN	T NAME
b. TYPE OF COI			DAT C		other		:		Petes	Wasi	h Unit
WELL X	WORK DEEP-	PLUG BACK	DIFF. RESVR.		Other			 _	S. FARM O	R LEASE	NAME
2. NAME OF OPERA									NA 9. WELL N	<u> </u>	
	troleum Corp	oration							1-22	0.	
3. ADDRESS OF OP	_{ERATOR} St., Suite 22	: 200 : Danya	ar Co	21	1202					AND POO	DL, OR WILDCAT
	ELL (Report location					ement	(R) *		Wildo		,
At surface	1280' FWL &					0.000	,		11. SEC., T	., R., M.,	OR BLOCK AND SURVE
		::	N/	iws	w			,	OR ARI		
At top prod. in	iterval reported below	**************************************	,,						C NW/		22-T10S-R17
At total depth									sec	LION	
			14. PERMIT	NO.	1		ISSUED		12. COUNT PARISE	I	13. STATE
		1	43-013	30	595		<u>-13-81</u>		Duche		Utah
15. DATE SPUDDED	16. DATE T.D. REAC	HED 17. DATE (COMPL. (Rea	idy to	prod.) 18.		ATIONS (DF,	RKB, F	T, GR, ETC.)	• 19.	ELEV. CASINGHEAD
9-3-81	12-7-81						65 KB	VATO	ROTARY T	001.8	CABLE TOOLS
20. TOTAL DEPTH, MI	i	BACK T.D., MD & TV	22. IF HO	MULI W MA	TIPLE COMPL.,		DRILLI		O-TD	OULS	[
11,398'	11,2 ERVAL(S), OF THIS CO		OTTOM NAN	tie (M	D AND TVD)*		·	<u> </u>	0-10	2	5. WAS DIRECTIONAL
)' - 10,214'		OIIOM, NAM	(m	D AND IND,						SURVEY MADE
10,100	10,214	ric saver de									No
26. TYPE ELECTRIC	AND OTHER LOGS RUN	<u> </u>	·		2-12-9	-				27. V	VAS WELL CORED
DLL-GR, F	DC-CNL-GR	ASAY 111	DECT I	140	106 AA	NIIG	YN CF	MEA	7 BOND		No
2 8.		ASING INC	G RECORD	(Repo	ort all strings	set in	n well)	1111.70	7.00.42		
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET		HOL	E SIZE		CEME	NTING	RECORD		AMOUNT PULLED
13-3/8"	48#	210			-1/2"		5 sxs c	-		sur	<u> </u>
8-5/8"	24#	2890'			-1/4"	66	O sxs C	lass	G cmt		
4-1/2"	11.6#	11,305	<u> </u>	7	-7/8"		0 sxs 5				
					l	_DY	tools			2075	L
29.		NER RECORD					30.		UBING RE		PACKER SET (MD)
SIZE	TOP (MD) B	OTTOM (MD) S	ACKS CEMEN	NT*	SCREEN (MI		SIZE		DEPTH SET		.
		···		·			2-3/8"	- -	9990'		9990'
31. PERFORATION R	ECORD (Interval, size	and number)		!	32.	AC	ID. SHOT. I	FRACT	URE. CEME	NT SQU	EEZE, ETC.
	,		201		DEPTH INT						MATERIAL USED
	10,183', 10,1				10.180'		10.214	20	[sp 00	MEC-	l acid
	10,196', 10,1 10,204', 10,2				10,100		10 , 6 14		oo, ya	WI. 6	<u> </u>
	10,212', 10,2										
10,210,	10,212 , 10,1		3311								
33.*					UCTION						- (P. Justus an
DATE FIRST PRODUC	1	SIWOPL	flowing flowing		mping—size	and t	ype of pump)		LL STATU hut-in)	SI
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. F		OIL-BBL.		GAS-MCF	·	WATER-E	BL.	GAS-OIL RATIO
12-27-82	4	20/64"	TEST PERI	►	0		258		0		·
FLOW. TUBING PRESS	. CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.		GASI		58 I	ATER-	-BBL.	OIL (GRAVITY-API (CORR.)
	GAS (Sold, used for fu	el, vented, etc.)	1		1				TEST WITE	ESSED I	вх
					•						
35. LIST OF ATTAC	HMENTS	· · · · · · · · · · · · · · · · · · ·	· · · · · ·						<u> </u>		
		ŧ"									
36. I hereby certif	y that the foregoing	and attached info	rmation is	compl	ete and corre	ect as	determined	from	all available	record	8
	wood /Llix	- \$ -		D.	ivision	Pro	duction	Man	ager	m Er	4-13-82
SIGNED	-~ux/xxx~	·	TITLE						DA	1'IV	

or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and precional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35. General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency.

11 there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

		TRUE VERT. DEPTH		. 4.											
GEOLOGIC MARKERS	TOP	MEAS. DEPTH	Surface	5094'	9173'										
38. GEOLOG		NASIE	Uintah	Wasatch	Mesaverde								-		
IS THERROF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING EN, PLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.		SEE ATTACHED	Gas	Gas	Gas	Gas	นลร	Gas	Gas					``
OSITY AND CONTENUES TOOL OI	BOTTOM			4015'	9204'	10,218	10,416	10,453	10,906	11,040'				 	
MARY OF POROUS ZONES: show all important zones of porosity and contents thereof; defth interval tested, cushion used, time tool open, flowing	TOP			4012'	9202' 9354'	10,177'	10,411'	10,434	10,900'	11,032		•			
37. SUMMARY OF POROUS ZONES SHOW ALL IMPORTANT ZONES DEPTH INTERVAL TESTED, CUS.	FORMATION			Green River	Mesaverde Mesaverde	Mesaverde	Mesaverde	Mesaverde	Mesaverde	Mesaverde	ī			,	

2200 Petro Lewis Tower/717-17th Street/Denver, CO 80202/(303)893-2233



May 5, 1982

State of Utah Natural Resources & Energy 4241 State Office Building Salt Lake City, UT 84114

Dear Ms. Furse,

As explained to you in my letter of April 14, 1982, enclosed you will find the final copies of logs run on the following wells:

LOVE UNIT #B2-3 Uintah County, UT Sec. 3-T11S-R21E

Simultaneous Dual Laterlog

Simultaneous Compensated Neutron Formation Density

LOVE UNIT #4-1 Uintah County, UT Sec. 4-T11S-R21E

Simultaneous Dual Laterlog

Simultaneous Compensated Neutron Formation Density

SHEEPWASH #1-28 Duchesne County, UT Sec. 28-T10S-R16E

Dual Induction-SFL w/linear correlation log

Simultaneous Compensated Neutron Formation Density

Simultaneous Dual Laterlog

KINGS CANYON #1-11 Uintah County, UT Sec. 11-T11S-R19E

Computer Processed Log

Simultaneous Compensated Neutron Formation Density

Dual Induction-SFL w/linear correlation log

Simultaneous Dual Laterlog

Borehole Compensated Sonic Log

PETES WASH #1-22 Usintah County, UT Sec. 22-T10S-R17E

Simultaneous Compensated Neutron Formation Density

Simultaneous Dual Laterlog

If you have any questions, or require any mud logs, do not hesitate to contact me.

Sincerely,

COTTON PETROLEUM CORPORATION

Marianne Dobler

Exploration Secretary

7	

Form Approved. Budget Bureau No. 42-R1424

UNITED STATES	5. LEASE	
DEPARTMENT OF THE INTERIOR	U-43356	
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
	<u> </u>	
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT N	
(Do not use this form for proposals to drill or to deepen or plug back to a different	<u>Petes Wash Uni</u>	t
reservoir. Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAM	IE
1. oil gas X other	<u>NA</u>	- <u></u>
Well — Well Galler	9. WELL NO.	
2. NAME OF OPERATOR	1-22	
Cotton Petroleum Corporation	10. FIELD OR WILDCAT N Wildcat	AME
3. ADDRESS OF OPERATOR 717 17th St., Suite 2200, Denver, Co 80202		LIK AND CHOVEY OF
	11. SEC., T., R., M., OR E AREA C NW/SW	
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 1280' FWL & 1980' FSL	Section 22-T10S-R17E	
AT SURFACE:	12. COUNTY OR PARISH	
AT TOP PROD. INTERVAL:	Duchesne	Utah
AT TOTAL DEPTH:	14. API NO.	
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	43-013-30595	
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW	DF, KDB, AND WD)
CHOCKET TO ADDROVAL TO CHOCKET DEPOST OF	5865' KB	
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:		
SHOOT OR ACIDIZE REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON* (other)	(NOTE: Report results of mu change on Form 9-3	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertinent the following depths: 10,440', 45', 48', 52' 89', 10,922', 24', 26', 30', 33', 11,013', 17 38', 11,129', 31', 36', 38', 73', 75', 77', to There are 15 existing perforations from 10,18 in the Mesaverde will then be fracture stimula a total of 210,000g 50 lbs. APPROVED BY OF UTAH DIVOIL, GAS, AND DATE: DATE: BY:	ditionally drilled, give subtet to this work.)* ditional Mesaverde, 10,871', 73', 75', 20', 25', 30', 25', 30', 25', 30', 25', 30', 30', 30', 30', 30', 30', 30', 30	surface locations and ', 84, 86', 34', 36', nal perfs. 5 perforations 1 stages with
Subsurface Safety Valve: Manu. and Type	Set	@ Ft.
18. I hereby certify that the foregoing is true and correct		
SIGNED TITLE Div. Prod. Mg	ir. DATE 6-23-	82
(This space for Federal or State offi	ce use)	
	- ·	y •
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	DATE	

FILE IN TRIPLICATE FORM OGC-8-X

(b)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 1588 West North Temple Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Vell Name & Number <u>Petes</u>	s Wash Unit 1-22	
perator <u>Cotton Petroleum</u>	Corporation Address 717 17t	<u>h St., Suite 2200, Denver,</u> Co 80202
Contractor Landmark Drill	ing Corporation Address 4764 S.	
Location SW 4 SW 4	Sec. 22 T. 10S R.	17E County Duchesne
Water Sands		
Depth	<u>Volume</u>	Quality
From To	Flow Rate or Head	Fresh or Salty
1		
2		
	·	
	(Continue on reverse side if	
Formation Tops		
Green River 885'	Wasatch 5094' Mesav	verde 9173'
Remarks		·
Oil and Gas shows i No loss circ or wat	n Green River at 1850 - 1875' er flows	
NOTE: (a) Report on th Regulations	is form as provided for in Ru and Rules of Practice and Pro	le C-20, General Rules and cedure.

If a water analysis has been made of the above reported zone,

please forward a copy along with this, form.

Form Approved. Budget Bureau No. 42-R1424

5. LEASE

U-43356

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	NA NAME
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)	Petes Wash Unit 8. FARM OR LEASE NAME
	NA NA
1. oil gas X other	9. WELL NO.
2. NAME OF OPERATOR	1-22
Cotton Petroleum Corporation	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	Wildcat
717 17th St., Suite 2200, Denver, Co 80202	11. SEC., T., R., M., OR BLK. AND SURVEY OF
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA
below.) 1280' FW] & 1980' FSL AT SURFACE:	Section 22-T10S-R17E 12. COUNTY OR PARISH 13. STATE
AT SURFACE: AT TOP PROD. INTERVAL:	
AT TOTAL DEPTH:	Duchesne Utah
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	43-013-30595
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
	5865' KB
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	
FRACTURE TREAT \(\text{\bar}\) \(\text{\bar}\) SHOOT OR ACIDIZE \(\text{\bar}\) \(\text{\bar}\)	
REPAIR WELL	(NOTE: Report results of multiple completion or zone
PULL OR ALTER CASING 🔲	change on Form 9-330.)
MULTIPLE COMPLETE	
CHANGE ZONES	
(other)	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertinen	irectionally drilled, give subsurface locations and
The well was perforated on July 2, 1982 10,871', 73', 75', 84', 86', 89', 10,922', 24 17', 20', 25', 30', 34', 36', 38', 11,129', 377', a total of 30 holes. It was fracture tr gals gel and 138,000# 20/40 sd. The psi incr and the rate dropped from 30 BPM to 0 BPM. Under the stage of the stag	1', 26', 30', 33', 11,013', 31', 36', 38', 11,173', 75', reated in one stage w/68,000 reased from 5150# to 5300#, Jnable to pmp, well screened
IP = 80 MCF, 0 BC, 2 BW.	
•	
Subsurface Safety Valve: Manu. and Type	Set @ Ft
18. I hereby certify that the foregoing is true and correct	
SIGNED A COM TITLE Div. Prod. MC	gr. _{DATE} 8-27-82
(This space for Federal or State offi	ice use)
· ,	
APPROVED BY TITLE TOTALL TITLE	DATE

ATTACHMENT

DST #1 was run from 4760' - 4824'. IF 10 minutes, tool open with weak bubble through hose, 1 oz. increasing to 3 oz. in 3 minutes, increased very weak flow at end of flow period. IF 60 minutes, FF 30 minutes, tool opened with no blow, no blow then bubble in the hose during flow period. FSI 120 minutes, recov in our pipe was 300' of mud & water in pipe, top sample resistivity .32 at 76° with 9600 ppm C1; middle sample resistivity of .37 at 80° with 8000 ppm C1; bottom sample resistivity of .43 at 83° with 11000 ppm C1. Sampler at 5# press recovered 2000 cc of mud, resistivity of sample was .44 at 81°. Top recorder was at 4791' and bottom recorder was at 4819'.

DST #2 was run from 10,178' - 10,250'. IF 15 minutes, weak blow with 2-1/2" water in bucket, increased to 12" in bucket in 15 minutes, SWI for 60 minutes, open well for FF 120 minutes, weak blow & increasing in bucket, increased up to 3#, 65 minutes decreased to 2# at end of the fl, gas to surface in 75 minutes into fl, gas is flamable; FSI 240 minutes. Bottom Recorder set @ 10,184', IHS 5598#, IF 375# - 424#, 15 min; ISI 5413#, 60 min; FF 498# -646#, 120 min.; FSI 5475#, 4 hrs, FHS 5599#, bottom hole temperature @ 1960. Sample chamber @ 2150 cc mud @ 450# press, bleed gas off in sampler. DP recov 279' of gas cut wtr, 875' gas cut muddy wtr, this included 1000' wtr cushion.

DST #3 was run from 10,848' - 10,925'. IF 15 min., ISI 60 min., FF 120 minutes, FSI 240 min. Inside recorder set @ 10,811', IHS 5958', IF 515'-441'; ISI 441 - 1640; FF 330 - 496; FSI 1936; FHS 5939; temperature @ 200° . Outside recorder set @ 10,853', IHS 6012, IF 6012, temperature @ 200° . Recov in sampler 2.18 cu ft of gas with small trace of wtr, too small to test. DP recov 1000' GCWC, 99' GCM. IF 15 min., weak blow, increasing 2-1/2# on 1/4" ch. ISI 60 min, FF 120 min. gas to surface immediately w/strong blow, increased to 60 min., FSI 240 min. Resistivity .16 @ 44°, filtrates .11 @ 50° , C1 56,242. DP recov, resistibity .65 @ 60° , c1 8163.

DST #4 was run from 11,018' - 11,054'. IF 15 min., weak blow increased to 1/4 oz. @ end of blow. ISI 60 min. followed by FF 120 min. weak blow, increasing to 15 oz. in 40 min., decreasing to 6 oz @ end of blow; FSI 240 min. Sampler recov 3.0 cu ft of gas, press in cyclinder 500#, trace of wtr. Recov in DP 1013' of slightly cut mud & wtr cushion. During IF the HS 6102#, IF 460 - 460#, ISI 1106#, FF 441 - 460#, FSI 1622#, FHS 6014#, temperature @ 205° . Resisitivity for pit mud, mud .21 @ 40° , filtrates .15 @ 40° , C1 66,000 ppm. DP recov resistivity .59 @ 41° , C1 9,000 ppm.

UNITED STATES DEPARTMENT OF THE INTERIO **GEOLOGICAL SURVEY** (FORM 9-329) (2/76) OMB 42-RO 356

MONTHLY REPORT OF **OPERATIONS**

Lease No. <u>U-43356</u>	
Communitization Agreem No. NA	WK-
Field Name Wildcat	
Unit Name NA	
Participating Area NA	
County Duchesne	State <u>Utah</u>
Operator Cotton Petroleum Corpor	ation
☐ Amended Report	

The following is a correct report of operations and production (including status of all unplugged wells) for the month of November

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and for-

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
1-22	NW/SW Sec.22	10%	17E	Contin	ued dri ng. Rai	ling. Ran	DST#3 from		178' - 10,250' 25'. Continue tinue drlg to
									·
,				- - - - - - -	,				

*If none, so state.

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		xxxxxxxxxxxxxx	* xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
*Produced	·		
*Sold		**************************************	XXXXXXXXXXXXXXXXX
Spilled or Lost		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxx
*Flared or Vented	xxxxxxxxxxxxxxxx	·	xxxxxxxxxxxxxx
*Used on Lease			XXXXXXXXXXXXXXX
*Injected		<u> </u>	
Surface Pits	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxx	
Other (Identify)			
On hand, End of Month		xxxxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
API Gravity/BTU Content			XXXXXXXXXXXXXXX
Authorized Signature:		17 17th St., Suite Page1 of	2200, Denver,CO 80
TIME.		01	·

UNITED STATES DEPARTMENT OF THE INTERIO GEOLOGICAL SURVEY (FORM 9-329) (2/76) OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No	U-43356	7	Pelostur
Communitiz	ration Agreem No. No. No. No. No. No. No. No. No. No.	Α	(U)
Unit Name	NA		
Participating	g Area NA		
County	Duchesne :	State	<u>Utah</u>
OperatorC	otton Petroleum Corpo	ration	
□ Amended	l Report		

The following is a correct report of operations and production (including status of all unplugged wells) for the month of December 19 81

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and for feit the bond (30 CFR 221.53).

NW/SW Sec.22	10	17E	Run 29 Poz: from 1	7 jnts, Ran 361	4-1/2", 11. jnts 2-3/8"	5# N80 csg, 4.7# N80 t	,398' TD. Ra cmt w/900 sxs bg. Perf'd w	50/50 e11
			DNY SU	rvey. I	Released rig		. Well SI, r	unning
							V [5]	
						Jisa, Un	OF o ∞ IVIINING	
								382

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx
*Produced			
*Sold			xxxxxxxxxxxxxx
*Spilled or Lost		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx
*Flared or Vented	xxxxxxxxxxxxxxx		xxxxxxxxxxxxxxx
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	xxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	
Other (Identify)	·		
On hand, End of Month		<u>xxxxxxxxxxxxxxxxx</u>	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXX
Authorized Signature:	Address: <u>7</u>	17 17th St., Suite	2200, Denver, CO 80
Title: Division Production Manager		Page of	1

well 🔀

(other)

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)

other

1700 Lincoln, #4900, Denver, CO 80203-4549

gas

well

Apache Corporation

	UNITE	D S	TATE	:S	
DEI	PARTMENT	OF	THE	INTERIOR	
	GEOLOG	ICAL	SUF	RVEY	

			Appro		2-R1424
5.	LEASE U-4335	66	12(non	## J
6.	IF INDIAN NA	, ALLOTTEE	OR T	RIBE N	AME
7.	UNIT AGR	EEMENT N	AME		
8.	• • • • • • • • • • • • • • • • • • • •	LEASE NAM Wash Un			
9.	WELL NO. 1-22				
10.	FIELD OR Wildca	WILDCAT N	IAME		
11.	SEC., T., 1	R., M., OR E	BLK. A	ND SU	RVEY OR
	AREA	Section	22	T10S	r17E
12.	COUNTY	OR PARISH	13.	STATE	
	Duches	ne		Utah	
14.	API NO.	3.01	з .,	30.5	95

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: 1980' FSL 1280' FWL AT TOP PROD. INTERVAL: AT TOTAL DEPTH: 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, 15. ELEVATIONS (SHOW DF, KDB, AND WD) REPORT, OR OTHER DATA SUBSEQUENT REPORT OF: REQUEST FOR APPROVAL TO: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON* Change of Operator

(NOTE: Report results of multiple completion or some change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

> Change of Operator from Cotton Petroleum Corporation to Apache Corporation, effective November 1, 1986.

> > JAN CE 1987

Subsurface Safety Valve: Manu. and Type				<u>. 23 2 2 2</u> . 21 11	<u> </u>	et @		, Ft.
18. I hereby certify that the foregoing is tr SIGNED Charles E. Mertz	rue and correc	t Land	Manager	_ DATE .	Januar	y 30, 19	987	
	This space fo	r Federal (or State office us	e)				
APPROVED BY	TITLE			DATE	·			

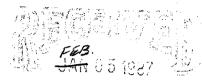


303/831-6500

February 3, 1987

U. S. Department of the Interior Bureau of Land Management 324 South State, Suite 301 Salt Lake City, Utah 84111-2303

Attention: Roland G. Robison State Director



DIVISION OF DIL, GAS & NIMING

Re: Sundry Notices - Change of Operator

Gentlemen:

Enclosed in quadriplicate, are Sundry Notices indicating a Change of Operator from Cotton Petroleum Corporation to Apache Corporation, effective November 1, 1986, regarding the following wells:

#1-11 Love Unit #4-1 Love Unit #B2-3 Love Unit #B-10 Love Unit #A-18 Love Unit #1-12 Love Unit #1-10 Duncan Federal #1-3 Lafkas Federal #1-26 Barton Federal #1-22 Pete's Wash Unit #1-10 Hill Federal

Upon approval by the Bureau of Land Management, please furnish us a copy of the approved form.

Thank you for your consideration.

Yours very truly,

Apache Corporation

Sally A. Woodruff Contract Landman

SAW/es

Enclosures

cc: State-Utah, Div. of Oil, Gas & Mining V (w/enclosures)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES



SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or due; back to a different reservoir Use "APPLICATION FOR PERMIT—" for Mark 28 1988 OIL WELL OTHER NOON APACH COMP. MAR 28 1988 NAME OF OPERATOR BWAB Incorporated ADDRESS OF OPERATOR 1801 California St., Suite 1000, Denver, CO 80202 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* At surface NWSW 1980' FSL & 1280' FWL	5. LEASE DESIGNATI U-43356 PG 6. IF INDIAN, ALLOT Q329 7. UNIT AGREEMENT Petes Wash 18 8. FARM OR LEASE 19 9. WELL NO. #1-22 10. FIELD AND FOOL Unnamed 4-8	GW/MURD TER OR TRIVE NAM NAME Unit
OIL GAS WELL OTHER N5040 Apache Corp. MAR 28 1988 NAME OF OPERATOR BWAB Incorporated ADDRESS OF OPERATOR 1801 California St., Suite 1000, Denver, CO 80202 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* At surface	6. IF INDIAN, ALLOT 0329 7. UNIT AGREEMENT Petes Wash I 8. FARM OR LEARE I 9. WELL NO. #1-22 10. FIELD AND POOL Unnamed 4-8	NAME Unit
OIL GAS WELL OTHER N5040 Apache Corp. MAR 28 1988 NAME OF OPERATOR BWAB Incorporated ADDRESS OF OPERATOR 1801 California St., Suite 1000, Denver, CO 80202 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* At surface	7. UNIT AGREEMENT Petes Wash 18. FARM OR LEASE 19. WELL NO. #1-22 10. FIELD AND POOL Unnamed 4-8	NAME Unit
OIL GAS WELL OTHER N5040 Apache Corp. MAR 28 1988 NAME OF OPERATOR BWAB Incorporated ADDRESS OF OPERATOR 1801 California St., Suite 1000, Denver, CO 80202 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* At surface	7. UNIT AGREEMENT Petes Wash 1 8. FARM OR LEASE 1 9. WELL NO. #1-22 10. FIELD AND POOL Unnamed 4-8	WAMB Unit
OIL WELL OTHER N5040 Apache Corp. MAR 28 1988 NAME OF OPERATOR BWAB Incorporated ADDRESS OF OPERATOR 1801 California St., Suite 1000, Denver, CO 80202 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* At surface	7. UNIT AGREEMENT Petes Wash 1 8. FARM OR LEASE 1 9. WELL NO. #1-22 10. FIELD AND POOL Unnamed 4-8	WAMB Unit
NAME OF OPERATOR BWAB Incorporated ADDRESS OF OPERATOR 1801 California St., Suite 1000, Denver, CO 80202 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* At surface	Petes Wash 1 8. FARM OR LEASE 1 9. WELL NO. #1-22 10. FIELD AND POOL Unnamed 4-8	Unit
BWAB Incorporated BWAB Incorporated ADDRESS OF OFERATOR 1801 California St., Suite 1000, Denver, CO 80202 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	9. WELL NO. #1-22 10. FIELD AND FOOL Unnamed 4-8	Unit NAME
BWAB Incorporated ADDRESS OF OFFRATOR 1801 California St., Suite 1000, Denver, CO 80202 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	9. WELL NO. #1-22 10. FIELD AND FOOL Unnamed 4-8	
1801 California St., Suite 1000, Denver, CO 80202 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	#1-22 10. FIELD AND POOL Unnamed 4-8	
LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	#1-22 10. FIELD AND POOL Unnamed 4-8	
LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	Unnamed 4-8	
At surface	Unnamed 4-8	OR WILDOUT
		-
	1 11. BEC., T., R., M., C	DE BLE. AND
	SUBVET OR AS	ISA
	Sec. 22, T10	0S-R17E
PERMIT NO. 15. BLEVATIONS (Show whether DF, RT, QR, etc.)	12. COUNTY OR PART	
43-013-30595 5865' KB	Duchesne	UT
		1
Check Appropriate Box To Indicate Nature of Notice, Report, or (Other Data	
NOTICE OF INTENTION TO:	UENT REPORT OF:	
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING	
FRACTURE TREAT MULTIPLE COMPLETE PRACTURE TREATMENT	ALTERING	
SHOOT OR ACIDIZE ABANDON® SHOUTING OR ACIDIZING	ABANDONA	
REPAIR WELL CHANGE PLANS (Other)		
(Other) CHANGE OF OPERATOR (Note: Report result	of multiple completion detion Report and Log	n on Well
Effective April 1, 1988 the above referenced location by BWAB Incorporated, 1801 California St., Suite 1000 The Drilling & Production Manager is John Keller, 303	, Denver, Co	
I hereby certify that the foregoing is true and correct SIGNED	DATE3/1	L8/88



DIVISION OF

OIL, GAS & MINING

May 9, 1988

State of Utah Division of Oil, Gas & Mining 355 W. North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

Attn: John Baza

Re: State of Utah

State Sundry Notices

Dear Sir:

Enclosed herewith are 8 Sundry Notices in triplicate regarding the Change of Operator on these wells. Upon your approval of these notices would you please execute and return one copy of each for our files. If you should have any questions with regard to these notices, please do not hesitate to contact the undersigned.

Very truly yours,

BWAB Incorporated

Carrie M. Sullivan

CMS/klg

Enclosures

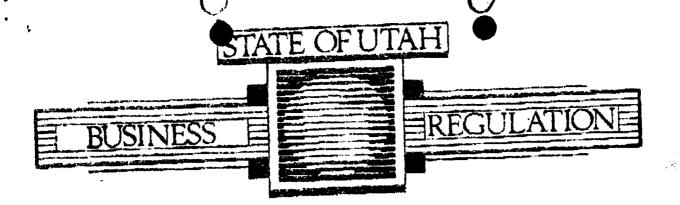
DENVER, COLORADO 80202

m. Sullivan

		TRIPLICATE
		strucțions on
_ n	541.1	se side)

	DEPARTMENT OF NATI		IRCES .	LEAL LOL	sulc)		
	DIVISION OF OIL, GA				U-43356	BNATION	AND BERIAL NO
SUNI (Do not use this !	ORY NOTICES AND R	EPORTS) C	N WELLS	pervett.	6. IP INDIAN,	ALLOTTES	OR TRIBE NAM
1.		44	MAY 11 19	88	7. UNIT AGES		
₩911 W911	X other				Petes W		
Apache Corp	oration		DIVISION OF		S. PARM OR LE	iase nami	•
. ADDRESS OF OPERATOR			UIL GAS & MIN		9. WELL NO.	·····	
	n Street, Suite 1900,				#1-22		
i. LOCATION OF WELL (Re See also space 17 below At surface	port location clearly and in accord	ance with any	Itate requirements.		10. FIELD AND Unnamed		WILDCAT
	NWSW 1980' FSL & 128	30' FWL			11. 88C., 2., 8., 808VST	M., 08 M	LE. AND
	·				Sec. 22	. T105	5-R17E
4. PERMIT NO.	18. BLEVATIONS (S	how whether or.	87. 68. etc.)		12. COUNTY OF		
43-013-30					Duchesn	_	UT
. 6 .						<u></u> 1	
	Check Appropriate Box To	o indicate No	sture of Notice,	•	_		
жe	PERCE OF INTENTION TO:			803630	UBNT ASPOST OF:		
TRET WATER SEUT-OFF	PULL OR ALTER CASE	*c	WATER SHUT	077	RSP.	AIRING W	ett
PRACTURE TREAT	MULTIPLE COMPLETE		PRACTURE TE	BATMENT	ALTI	BRING CAS	BINO
SHOOT OR ACIDIZE	ABANDON*		SMOUTING OR		_	rus m nour	·
REPAIR WELL	CHANGE PLANS			ange of 0	perator of multiple com	Platter a	
(Other)			Comple	ion or Recomp	ietion Report and	Log form	D.)
7. DESCRIBE PROPOSED OR (proposed work, If (ment to this work,) *	OMPLETED OPERATIONS (Clearly stawell is directionally drilled, give a	ite mil pertinent ubsurface locatio	details, and give pons and measured a	ertinent dates. .nd true vertic	including estima ai depths for ail	ited date markers	of starting at and zones per
property to B duties as ope previously re transfer of o all correspon 1988 to BWAB	ised Apache Corporation WAB Incorporated. But attended the subject apported the change would perations was postponted regarding operations at Suite and 80202 to the attended.	TAB Incorporty of the property	orated will effective Ma ective April May 1, 1988. the property 801 Californ	assume Ap y 1, 1988 1, 1988 Please after Ja ia Street	ache's . It was but the direct nuary 1,		

18. I hereby certify that the foregoing is true and correct SIGNED Clyde E. McKenzie	Wice President	4/29/88
(This space for Federal or State office use)		
APPROVED BY	MITLE	DATE



REINSTATEMENT

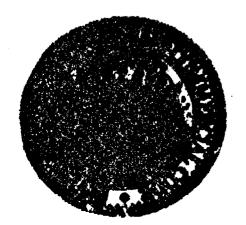
TO: COCHRANE RESOURCES. INC. #108794

*

447

THE RIGHT OF COCHRANE RESOURCES, INC.
TO TRANSACT BUSINESS IN THE STATE OF UTAH HAS PREVIOUSLY BEEN FORFEITED, AND ITS CHARTER SUSPENDED IT NOW APPEARS THAT ALL PRIOR DEFAULTS HAVE BEEN REMEDIED.

THE DEPARTMENT OF BUSINESS REGULATION, DIVISION OF CORPORATIONS AND COMMERCIAL CODE, CERTIFIES THAT THE AFOREMENTIONED CORPORATION IS HEREBY REINSTATED IN THE EXERCISE OF ALL ITS FORMER RIGHTS, CORPORATE PRIVILEGES AND IMMUNITIES.



m 1.81	20TH	day
Dated this		, 19
<i>w</i>	PA	
DIRECT	OR, DIVISION OF CORPOR	ATIONS AND



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United States Department of the Interior

BUREAU OF LAND MANAGEMENT UTAH STATE OFFICE 324 SOUTH STATE, SUITE 301 SAUT LAKE CITY, UTAH \$4111-2303



3104 $\{U-942\}$

SEP 7 1988

DECISION

Cochrane Resources, Inc. P.O. Box 1656

Rooseveit, Utah 84066

\$26,000 Personal

Statewide Oil and Gas Bond

Personal Off and Gas Lease Bond Accepted

Cochrane Resources, Inc. has furnished to this office a satisfactory personal bond in the amount of \$26,000. Evidence has been received that acceptable negotiable securities of the United States have been pledged with the Federal Reserve System to the account of the Secretary of the Interior for use in the event of default. The bond is accepted August 31, 1988, when the bond form was filed in this office.

The bond constitutes coverage for all interests and development obligations of, or on behalf of, the obligor in Federal cil and gas leases in the State of Utah. Coverage under this bond does not extend to additional obligors such as assignees of all or part of the obligor's interest in any lease.

The pledge consists of a United States Treasury Note, with an interest rate of 9.25 percent, maturing August 15, 1998. These negotiable securities will be retained in the account of the Secretary of the Interior until (1) this office determines there is no further need for the bond, (2) satisfactory replacement bond coverage is furnished, or (3) the maturity date. If the securities are still in the Secretary's account on the maturity date, the securities will be converted to a cash deposit in this office's suspense account without any further interest payments to the obligor, until a final determination is made of any further need for the bond.

Until securities are released or forfeited, regular interest payments will be made to the obligor by the U.S. Treasury until the maturity date.

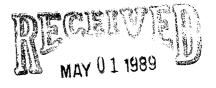
Chief. Minerals Adjudication Section



BWAB INCORPORATED

April 27, 1989

State of Utah Department of Natural Resources Division of Oil, Gas and Mining 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203



DIVISION OF OIL. GAS & MINING

RE: Pete's Wash Unit #1422 NWSW Sec. 22-T10S-R17E Duchesne County, Utah #3-0/3-3056895

> Duncan Federal #1-10 SENE Sec. 10-T9S-R17E Duchesne County, Utah

Hill Federal #1-10 NESW Sec. 10-Tl1S-R20E Uintah County, Utah

Gentlemen:

Enclosed please find three (3) Sundry Notices, in triplicate, showing a change of operator for the referenced wells.

Upon your approval, please return one copy to the undersigned for our files.

If further information is required, please contact the undersigned.

Respectfully,

BWAB INCORPORATED

John R. Keller Drilling and Production Manager

JRK/ep attachments

cc: David Perkins
TYMCO Oil Company
1248 West Hinsdale Drive
Littleton, CO 80120

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUR GAS AND MINING



DEP	ARTMENT OF NATU	IRAL RESOU	RCES		
D	IVISION OF OIL, GA	S, AND MINI	ING .	5. LEASE DESIGNATION	N AND SERIAL NO.
				U-43356	
SUNDRY N (Do not use this form for Use "AF	NOTICES AND RIPOPOSSAIS to defill of to de PLICATION FOR PERMIT	EPORTS Of the property of the	N WELLS ik to a different reservoir.	6. IF INDIAN, ALLOTTI	SE OR TRIBE NAM!
I. OIL CAS X				7. UNIT AGREEMENT N	EMA
2. NAME OF OPERATOR				8. FARM OR LEASE NA	EM.
BWAB INCORPORATED			,	Pete's Wash	Unit
ADDRESS OF OFERATOR		The same of the sa	the gridge shares, a real parameters, generally	9. WELL NO.	
555 - 17th Street, S			241	#1-22	
 LOCATION OF WELL (Report loca See also space 17 below.) At surface 	tion clearly and in accords			Unnamed 4-8	
<u>.</u>		MAY	0 1 1989	11. SBC., T., R., M., OR SURVEY OR ARE	BLE. AND
NWSW, 1980' FSL & 12	80' FWL	Becar	34/901 0 0	Sec. 22-T10	
	····	400.0.4	SION OF		
43-013-30595	18. BLEVATIONS (SE 5865 KE		o. General NG	Duchesne	Utah
6. Chec	k Appropriate Box To	Indicate Nat	ure of Notice, Report, or C	Other Data	
NOTICE OF	INTENTION TO:		PEREUR	UENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASIN	c	WATER SHUT-OFF	REPAIRING	WELL
FRACTURE TREAT	MULTIPLE COMPLETE		FRACTURE TREATMENT	ALTERING C	DNIBA
SHOOT OR ACIDIZE	ABANDON*		SHOOTING OR ACIDIZING	BMNOUNAEA	NT*
REPAIR WELL	CHANGE PLANS	 	(Other) Change of (of multiple completion	OR Well
(Other) 7. DESCRIBE PROPOSED OR COMPLETE		_	Completion of Recomp	etion Report and Log to	rm.)
Change of Operator f 5/1/89. Cochrane Re of Utah Bond #108794	sources, Inc., P				
					·
8. I hereby covery that the forego	, M	Drill	ing & Production Mgi	- DATE April	27, 1989
John R. Keller		TITLE DITTE		DATE TIPETT	
This space for Federal or Stat	e office use)				
APPROVED BY		TITLE		DATE	
CUMDITA IS OF APPROVAL,	IF ANY:				

APPROVED BY	TITLE	DATE
(This space for Federal or State office use)		
18. I hereby certify that the foregoing is true and cor	rectPresident	DATE May 12, 1989
the operator of the subje	nat Cochrane Resources, Indect well and is responsible the lease lands under the t	e for continued
PRACTURE TREAT MULTIPLE CON- SHOOT OR ACIDIZE ABANDON* REPAIR WELL CHANGE PLANS (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Cler proposed work. If well is directionally drilled, nent to this work.) *	shooting or acidizing (Other) Change C (Note: Report res Completion or Rec trly state all pertinent details, and give pertinent de	ABANDONMENT* OF Operator units of multiple completion on Well chapletion Report and Log form.) ites, including estimated date of starting any ritical depths for all markers and zones perti-
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF PULL OR ALTE	R CASING WATER SHUT-OFF	REPAIRING WELL ALTERING CASING
16. Check Appropriate E	Box To Indicate Nature of Notice, Report, c	
14. PERMIT NO. 15. BLEVATI 43-013-30595	5865 KB	Duchesne Utah
	DIVISION OF OIL, GAS & MINING	Sec 22, T10S, R17E
4. LOCATION OF WELL (Report location clearly and in See also space 17 below.) At surface 1980' FSL, 1280' FWL	MAY 15 1989	Unnamed 4-87 11. SEC., T., B., M., OR BLE. AND BUXDEY OR AREA
3. ADDRESS OF OPERATOR P.O. Box 1656 Roosevelt	, Utah 84066	9. WELL NO. 1-22 10. FIELD AND POOL, OR WILDCAT
2. NAME OF OPERATOR Cochrane Resources, Inc.		8. FARM OR LEASE NAME
OIL GAS OTHER		7. UNIT AGREEMENT NAME
SUNDRY NOTICES AN	D REPORTS ON WELLS r to deepen or plug back to a different reservoir. ERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	THE INTERIOR verse side)	5. LEASE DESIGNATION AND SERIAL NO. U-43356
Ferm 3160-5 UNITED	STATES SUBMIT IN TRIPLICA	Budget Bureau No. 1004-013: Expires August 31, 1985

*See Instructions on Reverse Side

PHONE CONVERSATION DOCUMENTATION FORM

	Well File Suspense [] Other Well File Sets Wash -ZZ [] Suspense [] Other (Return Date) (Return Date) (To - Initials) (API No.) 43-0/3-50595 (To - Initials) (To - I	- - -
1.	Date of Phone Call: 1-6-92 Time: 8:50	=
2.	DOGM Employee (name) Frank Matthews (Initiated Call [4) Talked to: Name Mark Emest (Initiated Call []) - Phone No. (303) 573-4	45
	of (Company/Organization)	-
3.	Topic of Conversation: Phygging of referenced well. then Side tracking + recompletion.	- -
4.	Highlights of Conversation: Prestioned Mark about fluid leteveer pluge. Inch him we were need multiplied Survey to detarmine BH Location. Confirmed Soos per Bols. asked if 516" was to be tested prior to disling, Mark sull they had not considered it but would think about it. Approved plugging + sidetach 1-6-91	= - - - - - - - - - - - - - - - - - - -

* * *					
Form 3160-5 (June 1990)	UNITED DEPARTMENT O BUREAU OF LAN				FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No. U-43356
	SUNDRY NOTICES AN form for proposals to drill o Use "APPLICATION FOR PE	r to deepen	or reentry to a diffe		6. If Indian, Allottee or Tribe Name
	SUBMIT IN	TRIPLICA	TE		7. If Unit or CA, Agreement Designation Desert Spring Unit
1. Type of Well Oil Gas Well Well 2. Name of Operator ANR Product	ion Company				8. Well Name and No. Petes Wash Fed. #1-22 9. API Well No12 013 3050
3. Address and Telephone P. O. Box 74	No. 49 Denver, CO age, Sec., T., R., M., or Survey Descript 1980' FSL	80201-0	749 (303) 9		10. Field and Pool, or Exploratory Area Wildcat 11. County or Parish, State Uintah County, Utah
12. CHECK	APPROPRIATE BOX(s) T	O INDICAT	E NATURE OF N	OTICE, REPOR	T, OR OTHER DATA
TYPE OF	SUBMISSION		T	YPE OF ACTION	
Subsequ	of Intent uent Report bandonment Notice		Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other		Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
give subsurface loc	ations and measured and true vertical dep	oths for all marker	s and zones pertinent to this	work.)*	ny proposed work. If well is directionally drilled
	; .	A002	PTED BY THE UTAN DARKKA GAS, AND MA		JAN 0 3 1992 DIVISION OF LEASE MINING

Approved by _______ Conditions of approval, if any: Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Title

Regulatory Analyst

12/31/91

Date

14. I hereby certify that the foregoing is frue and correct

(This space for Federal or State office use)

RECOMPLETION PROCEDURE

PETES WASH FEDERAL #1-22 NE/SW SECTION 22-T10-R17E DUCHESNE COUNTY, UTAH

WELL DATA

Location:

1280' FWL & 1980' FSL Section 22, T10S, R17E

Elevation:

5850' GR; 5865' KB

Total Depth:

11,398'

PBTD:

11,212'

CASING

Surface:

13-3/8" H-40 48# CSA 200', cmt w/225 sx CL "G" 8-5/8" K-55 24# & 32# CSA 2890', cmt w/660 sx

Intermediate:

Production:

4-1/2" N-80 11.6# CSA 11,398', cmt w/900 sx

Performance Properties:

			Capacity	Burst	Collapse	Tension
<u>Description</u>	ID	Drift	(BPF)	<u>(psi)</u>	_(psi)	(#)
8-5/8" K-55 24#	8.097"	7.972"	.0636	2950	1370	263,000
8-5/8" K-55 32#	7.921"	7.796"	.0609	3930	2530	452,000
4-1/2" N-80 11.6#	4.000"	3.875"	.0155	7780	6350	223,000
2-3/8" N-80 4.7#	1.995"	1.901"	.00387	11200	11780	104,340

Depth Reference:

Schlumberger FDC-CNL dated 12/7/81.

Present Status:

Well has been shut-in for 3 years.

RECOMPLETION PROCEDURE

- MIRU service unit. ND WH, NU BOPE. Kill well if necessary.
- Pull 2-3/8" tubing and lockset pkr. Notify Denver office if tubing will not come free.
- TIH w/CIBP on WL. Set CIBP @ 10,050'. PT csg to 3000 psi. Notify Denver office if csg will not pressure test. Run CBL and casing inspection log. Note: Squeeze procedure to be determined after running CBL. Procedure to be similar to $\overline{\text{Steps}}$ 4-8.
- Perf 4 squeeze holes @ 8250'. TIH w/retrievable pkr on 2-7/8" IJ tbg. Set pkr @ 8150'. Try to establish circ up the 4-1/2" x 8-5/8" casing annulus.
- If circulation can be established, circ annulus clean. TOH w/pkr and tbg. TIH w/cmt retainer on WL. Set retainer @ 8150'. Cmt 4-1/2" csg w/950 sxs Class "G" cmt w/suitable additives. Proceed to Step 8.
- 6. If circulation cannot be established, TOH w/pkr and tbg. Perf 4 additional squeeze holes @ 5300'. TIH w/2-7/8" IJ tbg and retrievable pkr. Set pkr @ 5400'. Establish circulation.
- 7. TIH w/cmt retainer on WL. Set retainer @ 5400°. TIH w/2-7/8" IJ tbg and stinger. Sting into retainer. Cmt squeeze 4-1/2" csg w/900 sxs Class "G" cmt.
- TOH w/tbg. WOC 24 hrs. TIH w/tbg and mill. Drill out cmt and cmt retainer to 8200'. Run CBL-CCL-GR log.

Petes Wash Federal #1-22 Recompletion Procedure Page 2

9. Perforate Wasatch w/4" csg gun as follows:

5525'	6031'	6058'	6658'	7257'	8105'
5928'	6039'	6148'	6652'	7853'	
5938'	6053'	6154'	7247'	7898'	

Neutron-Density Log depth - 16 holes.

 $\underline{\text{Note}}$: Actual testing intervals to be determined by squeeze work. Procedure to be similar to Steps 10-13.

- 10. TIH w/pkr and RBP. Straddle perforations @ 7853', 7898' and 8105'. Breakdown perforations with 500 gals 15% acid and 2 ball sealers. Swab to recover load and production test perforations. Report results to Denver office.
- 11. Reset pkr and RBP. Straddle perforations @ 6658', 6652', 7247' and 7257'. Breakdown perforations with 500 gals 15% acid and 3 ball sealers. Swab to recover load and production test perforations. Report results to Denver office.
- 12. Reset pkr and RBP. Straddle perforations @ 6031', 6039', 6053', 6058', 6148' and 6154'. Breakdown perforations with 500 gals 15% acid and 5 ball sealers. Swab to recover load and production test perforations. Report results to Denver office.
- 13. Reset pkr and RBP. Straddle perforations @ 5525', 5928' and 5938'. Breakdown perforations with 500 gals 15% acid and 2 ball sealers. Swab to recover load and production test perforations. Report results to Denver office.
- 14. Fracing procedures will be designed on the basis of above testing. <u>Note</u>: Due to squeeze work, fracs should be isolated with RBP and pkr. This will limit frac rates and reduce the amount of interval to be frac'd at one time. Procedure will be to isolate and frac 3-4 times.

DKD:tmr

DESERT SPRING UNIT ANR (FORMERLY COCHRANE/COTTON) PETES WASH FEDERAL #1-22 WELL NE/SW SEC 22-T10S-R17E DUCHESNE COUNTY, UTAH

PERFORATION SCHEDULE

WASATCH RECOMPLETION

REFERENCE LOG: SCHLUMBERGER DENSITY-NEUTRON DATED 12/7/81

WASATCH FORMATION: 5034' (+831')

5525	5928 5938	6031 6039 6053 6058	6148 6154	6658 6652	7247 7 257	7853 7898	8105
------	--------------	------------------------------	--------------	--------------	----------------------	--------------	------

TOTALS: 8 ZONES, 16 HOLES @ LJSPF

W. COLE 12/3/91

APPROVED: M

801 789 4436 PAGE.005

1/05 0/7E

100 mc 38R/2 Condensate / Nay

Gorm 3: 30-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED				
Budget Bureau No. 1004-0135				
Expires: March 31, 1993				

BUREAU OF	5. Lease Designation and Serial No. U-43356	
Do not use this form for proposals to Use "APPLICATION F	6. If Indian, Allottee or Tribe Name N/A	
SUBM	7. If Unit or CA, Agreement Designation	
Weil	N/A	
Sell X Well Cother		8. Well Name and No.
rus of Operator	Petes Wash Federal #1-22	
enome No.		9. API Well No. 43-013-30595
Box 749 Denver	12 1	10. Field and Pool, or Proloratory Area
4. Location of Well (Fr T.R. M., or Survey	Description)	Wildcat
1280' FWL 0' FSL Section 22, 1 US-R17E		11. County or Purish, State Duchishe Grandy, Utah
12. OMEGK APPROPRIATE BOX	K(s) TO INDICATE NATURE OF NOTICE, REPOF	RT, OR OTHER DATA
OF SUBMISSION	TYPE OF ACTION	y Walter and Automate -
A.J Nouce of Intent	Abandonment	Change of Plans
	X Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	X Other Sidetrack	Water
13. D. tot Operations (Clearly state	all pertinent details, and give pertinent dates, including estimated date of starting	essits of multiple completion on Well in Recompletion Report and Log form.)
	ucal depths for all markers and zones pertinent to this work.)* Cedure to sidetrack & recomplete the ab	⊘ve referen ced
	ACCEPTED BY THE STA OF UTAH DIVISION OF OIL, GAS, AND MINING DATE: 1-6-92 BY: SPY) attles	•
there confits the foregoing is trustand dorrect The Confit of Con	Regulatory Analyst	Date 1/3/92

it a crime for any per thin its jurisdicuos and or signify and willfully to make to any deps and or agency of the United States any false, fictitious

300 instruction on Reverse Side

TRACK & RECOMPLETION PROCEDURE

PETES WASH FEDERAL #1-22

NE/SW SECTION 22-T10-R17E DUCHESNE COUNTY, UTAH

WELL DATA

Location:

1280' FWL & 1980' FSL Section 22, T10S, R17E

Elevation:

5850' GR: 5865' KB

Total Depth:

11,398'

PBTD:

10.040' (CIBP)

CASING

Surfac

13-3/8" H-40 48# CSA 200', cmt w/225 sx CL "G" 8-5/8" K-55 24# & 32# CSA 2890', cmt w/660 sx

4-1/2" N-80 11.6# CSA 11,398', cmt w/900 sx (TOC @ 9100')

Performance Properties:

			Capacity	Burst	Collapse	Tension
<u>Description</u>	ID	<u>Drift</u>	(BPF)	(psi)	(psi)	(#)
8-5/8" K-55 24#	8.097"	7.972"	.0636	2950	1370	263,000
8-5/8" K-55 32#	7.921"	7.796"	.0609	3930	2530	452,000
4-1/2" N-80 11.6#	4.000"	3.875"	.0155	7780	6350	223,000
2-3/8" N-80 4.7#	1.995"	1.901"	.00387	11200	11780	104,340

Depth Reference:

Schlumberger FDC-CNL dated 12/7/81.

Present Status:

Well was shut-in for 3 years. WO commenced on 12/30/91. Pkr failed to release, cut tbg @ 10,090'. Set CIBP @ 10,040'. Fill csg, PI @ 3.8 BPM @ 700 psi. Ran csg inspection log and CBL, found bad csg @ 4150'-4425' CBL shows fill around csg from 4120'-4420'. SD operations, WO orders

SID. RECOMPLETION PROCEDURE

- HH w/open-ended 2-3/8" tbg and spot a 100' cmt plug on top of the CIBP @ 10,040' and a 200' cmt plug across top of cement on 4-1/2" csg @ 9100'. (Note: BLM needs to witness Steps 1 & 2.)
- Parforate 4 squeeze holes 0 ± 5134 '. Set CICR 0 ± 5030 '. Spot 200' cmt plug in a outside 4-1/2" csg from 4934' to 5134' to isolate the top of the Wasatch @ 5034'
- POH & LD 2-3/8" tbg.
- P MO workover rig.
- Dress off location, build pits for drlg rig.
- б. MI & RU drlg rig.
- 7. Determine free point and cut 4-1/2" csg @ ± 4000 '. LD 4-1/2" csg.
- TIH w/7-7/8" bit on 4" DP and circulate and condition hole to 4000'. 8
- 9. Spot $\pm 300^{\circ}$ Class "G" (17.5 ppg) cmt plug @ 3700'-4000'. WOC.

SIDETRACK & RECOMPLETION PROCEDURE PETES WASH FEDERAL #1-22 PAGE 2

- 10. Dress of plug to ±3900'.
- 11. III: $w_2 = -33$ type bit, high torque, low speed motor, 3° bent sub, non-magnetic DC, DC's and sidetrack well 0 ± 3900 °. Drill ± 120 ° w/motor assembly to establish sidetrack.
- 12. TIH w/conventional 7-7/8" bit and DC assembly and allow hole to drift back to vertical. Run single shot surveys every 300' to monitor deviation.
- 13. Drill to 8150' PTD.
- 14. Circ & condition. Run logs.
- 15. Set ± 3150 ° 5-1/2" 17# J-55 LT&C csg. Cement csg to surface.
- 16. ND BOP, set slips. RD & MO drlg rig.
- 17. Clean and level location, install anchors. MI completion unit.
- 18. Run 4-3/4" mill & csg scraper to PBTD. Circ hole clean.
- 19. Run CBL.
- 20. Perforate Wasatch per forthcoming recommendation.
- 21. Breakdown perfs w/3% KCl and flow test well.
- 22. Frac Wasatch per recommendation.
- 23. Flow test for cleanup.

MOE: tmr



(801) 359-3940

FACSIMILE COVER PAGE

			Date:	1/3/92
For: State of	Utal -	Frank	matthews	

This transmission consists of <u>5</u> pages (including cover).

If you have any trouble receiving the above specified pages, please of sender at (303) 572-1121.

C-1021 (Sev. 1/89)

HH 3 .85 IE:28 FROM COASTAL OIL AND GAS BE:00:

SEC. 22 TIGS; RITE DESERT STRINGS UNIT DUCHESNE COUNTY, WITH 132/11/19 H:40 (SA 200' SMID M 225 SK (ERE) 88/2 24/32/4 K-55 (SA 2) 280' CMID M 600 SK (CRE)

TOC 29100'

CIBP 20 10040'

23/8" TBG LUT 20 10090'

"""

FERFS 20 10180-214' (15 11)

CORD PERFS 20 10440-452

1013-17

11.15 11.213'

TB 11.398' CONTO MY 900 SK (750.

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Burea	u No.	1004-0135
Expires: N	March	31, 1993

DUREAU OF	LAND MANAGEMENT	5. Lease Designation and Serial No.
SUNDRY NOTICES	AND DEPORTS ON WELLS	U-43356
	AND REPORTS ON WELLS	6. If Indian, Allottee or Tribe Name
lise "APPLICATION FO	rill or to deepen or reentry to a different reservoir. R PERMIT—' for such proposals	
- COUNTY CONTROLLED	Tri Etimir— for such proposals	N/A
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well		December 6:
☐ Oil ☑ Gas ☐		Desert Spring Unit 8. Well Name and No.
Well Well Other 2. Name of Operator		
ANR Production Company		Petes Wash Fed. #1-22
3. Address and Telephone No.		9. API Well No. 41.013-305-95
P. O. Box 749 Denver, CC	80201-0749 (303) 573-4476	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey D	escription)	Wildcat
1280' FWL & 1980' FSL		11. County or Parish, State
Section 22, T10S-R17E		
		Uintah County, Utah
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
	TIPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
Final Abandonment Notice	Casing Repair	Water Shut-Off
La Pinal Adalkiosiniem Notice	☐ Altering Casing ☐ Other Self Certification	Conversion to Injection
	Statement	Dispose Water (Note: Report results of multiple completion on Well
13. Describe Proposed or Completed Operations (Clearly state a	l pertinent details, and give pertinent dates, including estimated date of starting	Completion or Recompletion Report and Log form.)
give subsurface locations and measured and true vertice	cal depths for all markers and zones pertinent to this work.)*	any proposed work. If well is directionally drilled,
Cotton Petroleum Corporation.	ive December 1, 1991, ANR Production C ve referenced well. This well was pre ANR Production Company is responsibl	viously operated by e under the terms and
conditions of the lease for the	ne operations conducted upon the lease	d lands Rond
coverage is provided by ANR Pi	roduction Company, Nationwide Oil & Ga	s Bond #CO-0001.
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	DIVISION	
•	OIL GAS & MIL	#NG
	(), (40)	
14. I hereby certify that the foregoing is pure and correct	6)	
Signed //Well Calley	Regulatory Analyst	Date 12/31/91
(This space for Federal or State office use)	\cup	
Approved by	Title	D
Conditions of approval, if any:	Title	Date
		n

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5 (June 1990)

1. Type of Well

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED et Bureau No. 1004-0135

		Expires:			
5.	Lease	Designat	ion and	Serial	No.

U-43356

N/A

SUNDRY NOTICES AND REPORTS ON WELLS	6. If Indian, Allottee or Tribe Name
-------------------------------------	--------------------------------------

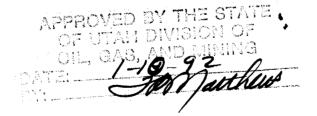
Do not use this for	rm for proposals to drill or to deepen or reentry to a different reservoir.
Us	se "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

N/A 7. If Unit or CA, Agreement Designation

Well X Well Other	8. Well Name and No.	
2. Name of Operator		Petes Wash Federal #1-2
ANR Production Company		9. API Well No.
3. Address and Telephone No.		43-013-30595
P. O. Box 749 Denver,	CO 80201-0749 (303) 573-4476	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Des	cription)	Wildcat
1280' FWL & 1980' FSL		11. County or Parish, State
Section 22, TlOS-R17E		Duchesne County, Utah
12. CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	N
X Notice of Intent	Abandonment	Change of Plans
	Kecompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	X Other Sidetrack	Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13. Describe Proposed or Completed Operations (Clearly state all give subsurface locations and measured and true vertical	pertinent details, and give pertinent dates, including estimated date of starti	ing any proposed work. If well is directionally drilled,

Please see the attached procedure to sidetrack & recomplete the above referenced well.





JAN 0 8 1992

DIVISION OF OIL GAS & MINING

14. I hereby certify that the foregoing is truly and correct Signed Ullu Ullu Regulatory Analyst	
(This space for Federal of State office use) Dey Approved by Title	Date
Approved by Title	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SIDETRACK & RECOMPLETION PROCEDURE

PETES WASH FEDERAL #1-22

NE/SW SECTION 22-T10-R17E DUCHESNE COUNTY. UTAH

WELL DATA

Location:

1280' FWL & 1980' FSL Section 22, T10S, R17E

Elevation:

5850' GR; 5865' KB

Total Depth:

11,398'

PBTD:

10,040' (CIBP)

CASING

Surface: Intermediate: 13-3/8" H-40 48# CSA 200', cmt w/225 sx CL "G"

Production:

8-5/8" K-55 24# & 32# CSA 2890', cmt w/660 sx 4-1/2" N-80 11.6# CSA 11,398', cmt w/900 sx (TOC @ 9100')

Performance Properties:

			Capacity	Burst	Collapse	Tension
<u>Description</u>	<u>ID</u>	<u>Drift</u>	(BPF)	(psi)	(psi)	(#)
8-5/8" K-55 24#	8.097"	7.972"	.0636	2950	1370	263,000
8-5/8" K-55 32#	7.921"	7.796"	.0609	3930	2530	452,000
4-1/2" N-80 11.6#	4.000"	3.875"	.0155	7780	6350	223,000
2-3/8" N-80 4.7#	1.995"	1.901"	.00387	11200	11780	104,340

Depth Reference:

Schlumberger FDC-CNL dated 12/7/81.

Present Status:

Well was shut-in for 3 years. WO commenced on 12/30/91. Pkr failed to release, cut tbg @ 10,090'. Set CIBP @ 10,040'. Fill csg, PI @ 3.8 BPM @ 700 psi. Ran csg inspection log and CBL, found bad csg @ 4150'-4425', CBL shows fill around csg from 4120'-4420'. SD operations, WO orders.

SIDETRACK & RECOMPLETION PROCEDURE

- TIH w/open-ended 2-3/8" tbg and spot a 100' cmt plug on top of the CIBP @ 10,040' and a 200' cmt plug across top of cement on 4-1/2" csq @ 9100'. (Note: BLM needs to witness Steps 1 & 2.)
- Perforate 4 squeeze holes @ ± 5134 '. Set CICR @ ± 5030 '. Spot 200' cmt plug inside and outside 4-1/2" csg from 4934' to 5134' to isolate the top of the Wasatch @ $5\overline{0}34$ '.
- POH & LD 2-3/8" tbq. 3.
- 4. RD & MO workover rig.
- Dress off location, build pits for drlg rig.
- MI & RU drlq riq. 6.
- 7. Determine free point and cut 4-1/2" csg @ ± 4000 '. LD 4-1/2" csq.
- TIH w/7-7/8" bit on 4" DP and circulate and condition hole to 4000'. 8.
- 9. Spot ±300' Class "G" (17.5 ppg) cmt plug @ 3700'-4000'. WOC.

SIDETRACK & RECOMPLETION PROCEDURE PETES WASH FEDERAL #1-22 PAGE 2

- 10. Dress off plug to ±3900'.
- 11. TIH w/J-33 type bit, high torque, low speed motor, 3° bent sub, non-magnetic DC, DC's and sidetrack well @ ±3900'. Drill ±120' w/motor assembly to establish sidetrack.
- 12. TIH w/conventional 7-7/8" bit and DC assembly and allow hole to drift back to vertical. Run single shot surveys every 300' to monitor deviation.
- 13. Drill to 8150' PTD.
- 14. Circ & condition. Run logs.
- 15. Set ± 8150 ' 5-1/2" 17# J-55 LT&C csg. Cement csg to surface.
- 16. ND BOP, set slips. RD & MO drlg rig.
- 17. Clean and level location, install anchors. MI completion unit.
- 18. Run 4-3/4" mill & csg scraper to PBTD. Circ hole clean.
- 19. Run CBL.
- 20. Perforate Wasatch per forthcoming recommendation.
- 21. Breakdown perfs w/3% KCl and flow test well.
- 22. Frac Wasatch per recommendation.
- 23. Flow test for cleanup.

MDE:tmr

PRESENT WELL SCHEMATIC PETES WASH FEDERAL #1-ZZ

SEC 22 , TIOS , RITE DESERT SPRINGS UNIT

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			<u> </u>		0) 85/8" 24-32" K-55 CSA 2 2890' CMTD W/ 660 SK (CIRC)
		- {			CMTD W/ 660 SK (CIRC)
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Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FUKM	I APPK	UVED
Budget Bure	eau No.	1004-0135
Expires:	March	31, 1993

 Expires:	 _	_
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SUNDRY NOTICES AND REPORTS ON WELLS

U-43356

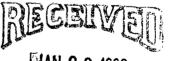
(Note: Report results of multiple completion on Well

Do not use this form for proposals to o Use "APPLICATION FO	rill or to deepen or reentry to a different reservoir. OR PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name
SUBMI	T IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well	N/A	
Oil Gas Well Other		8. Well Name and No.
2. Name of Operator		Petes Wash Fed. #1-22
ANR Production Company		9. API Well No.
3. Address and Telephone No.		43-013-30595
P. O. Box 749 Denver,	CO 80201-0749 (303) 573-4476	10. Field and Pool, or Exploratory Area
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		Duchesne County, Utah
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TYPE OF SUBMISSION	TYPE OF ACTION	
X Notice of Intent	Abandonment	Change of Plans
	X Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
• •	Other	Dispose Water

Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please see the attached procedure to replace the casing and recomplete the above referenced well.

This is an attempt to recomplete. Prior sundry for sidetrack dated 1/3/92 will be performed if this procedure is unsuccessful.



WAN 2 2 1992

DIVISION OF OIL GAS & MINING

		<u> </u>		
14. I hereby certify that the foregoing is trackand correct Signed Signe	Title	Regulatory Analyst	Date _	1/21/92
(This space for Federal or State office use)				
Approved by	Title		Date _	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

REPLACE CASING & RECOMPLETION PROCEDURE

PETES WASH FEDERAL #1-22

NE/SW SECTION 22-T10-R17E DUCHESNE COUNTY, UTAH

WELL DATA

Location:

1280' FWL & 1980' FSL Section 22, T10S, R17E

Elevation:

5850' GR; 5865' KB

Total Depth:

11,398'

PBTD:

10,040' (CIBP)

CASING

Surface: Intermediate:

13-3/8" H-40 48# CSA 200', cmt w/225 sx CL "G"

late:

8-5/8" K-55 24# & 32# CSA 2890', cmt w/660 sx

Production:

4-1/2" N-80 11.6# CSA 11,398', cmt w/900 sx (TOC @ 9100')

Performance Properties:

			Capacity	Burst	Collapse	Tension
<u>Description</u>	ID	Drift	(BPF)	<u>(psi)</u>	_(psiˈ)	(#)
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8-5/8" K-55 32#	7.921"	7.796"	.060 9	3930	2530	452,000
4-1/2" N-80 11.6#	4.000"	3.875"	.0155	7780	6350	223,000
2-3/8" N-80 4.7#	1.995"	1.901"	.00387	11200	11780	104,340

Depth Reference:

Schlumberger FDC-CNL dated 12/7/81.

Present Status:

Well was shut-in for 3 years. WO commenced on 12/30/91. Pkr failed to release, cut tbg @ 10,090'. Set CIBP @ 10,040'. Fill csg, PI @ 3.8 BPM @ 700 psi. Ran csg inspection log and CBL, found bad csg @ 4150'-4425', CBL shows fill around csg from 4120'-4420'. SD operations, WO orders.

REPLACE CASING & RECOMPLETION PROCEDURE

- 1. Move production equipment, dress up location for drilling rig.
- 2. MIRU drilling rig. ND WH, NU BOP's.
- 3. TIh w/open-ended 2-3/8" tbg and spot a 100' cmt plug on top of the CIBP @ 10,040' and a 200' cmt plug across top of cement on 4-1/2" csg @ 9100'. (Note: BLM needs to witness these plugs.) LD 2-3/8" tbg.
- 4. PU 4-1/2" spear and latch 4-1/2" csg. RU WL and run 1-3/8" OD freepoint tool to determine stuck point. (Note: While working casing, do not expect maximum of 80% of tensile strength or 190,000#.) If freepoint indicates 4-1/2" casing is stuck above the expected 4150'-4425' interval, consider utilizing wash pipe to wash over casing down to ± 4150 '. If casing is stuck in the 4150'-4425' interval, proceed to Step 5.
- 5. Cut 4-1/2" @ ± 10 ' above stuck point w/3-9/16" OD chemical cutter. LD 4-1/2" csg.
- 6. TIH w/7-7/8" used mill tooth bit, 12-6-1/4" DC's on 4" DP and circulate and condition hole down to top of fish with a high visc (70-75 visc, YP 30-35) gel water system. POOH.

SIDETRACK & RECOMPLETION PROCEDURE PETES WASH FEDERAL #1-22 PAGE 2

- 7. TIH with Tri-State's 5-3/4" OD metal muncher pilot mill w/7" OD ported skirt, shock sub, 6-1/4" OD H.E. drilling jar (2-3/4)" ID), 12-6-1/4" DC's on 4" DP. Mill over the stuck 4-1/2" 11.6% N-80 csg from ± 4140 ' to 4450' w/2-4000% WOB, 130-150 RPM. Viscosity of 70-75 and a circulation rate of 6-10 BPM is desired in order to effectively remove the metal cuttings from the hole and maximize penetration rate (minimum annular velocity = 110 FPS). Periodic sweeps may be necessary to assist in hole cleanup. (Expected penetration rate = 7-10 FPH.) Ditch magnets need to be installed at the shaker to help remove the metal cuttings from the mud system.
- 8. Circulate & condition hole clean. POH w/mill.
- 9. TIH w/7-3/8" overshot w/4-1/2" grapple and mill control guide, 6-1/4" jars (2-3/8" ID), 12 DC's on 4" DP and latch 4-1/2" csg @ \pm 4450'.
- 10. Run freepoint and determine stuck point on 4-1/2" csg. Consider re-running metal muncher mill, if top of fish is still stuck.
- 11. If 4-1/2" csg is 100% free down to 7400' or below, cut 4-1/2" csg @ ± 7400 ' and LD csg. Since the 2-3/4" ID of the jars will not allow running a 3-1/2" OD jet or chemical cutter, consider either backoff with a string shot or utilizing a 1-3/4" OD drill pipe severing tool to cut the csg. Proceed to Step 13.
- 12. If 4-1/2" csg is stuck between 4450' and 7400', consult Denver office for proceeding with fishing operations to either wash over or mill up remaining stuck points in csg. (Note: Due to roughness of cut w/severing tool, a mill run is necessary to dress up top of fish if an overshot is considered for further fishing operations.)
- 13. TIH w/7-7/8" bit and circ and condition hole for 5-1/2" csg . POH.
- 14. Set ± 7400 ' 5-1/2" 17# J-55 LT&C casing and cement csg to surface.
- 15. ND BOP, set slips. RD & MO drlg rig.
- 16. Cleanup location and install anchors. MI completion unit.
- 17. Run 4-3/4" mill and csg scraper to PBTD. Circulate hole clean w/3% KCl. POH.
- 18. Run CBL-CCL-GR from PBTD to TOC w/1000 psi. Test csg to 5000 psi.
- 19. Perforate Wasatch formation w/4" csg gun @ 1 SPF (per CNL-FDC log) as follows:

```
5525' 6031' 6058' 6652' 7257' (Total 13 holes.)
5928' 6039' 6148' 6658'
5938' 6053' 6154' 7247'
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- 20. Breakdown perfs w/3% KCl and flow test well.
- 21. RD completion unit.
- 22. Frac Wasatch per forthcoming recommendation.
- 23. Flow test for cleanup.

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		1 _		CATO W/225 SK (CIRC)
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Form 3160-5 (June 1990)

UNITED STATES

ı	FORM APPROVED
١	Budget Bureau No. 1004-4
	Expires: March 31, 199
١	5 Lease Designation and Serial

DEPARTMENT OF	THE INTERIOR
BUREAU OF LAND	MANAGEMENT

I Oldii Mi I KO I LD			
Budget Bureau No. 1004-0135			
Expires: March 31, 1993			
Lease Designation and Serial No.			
100EC			

CUMPRY MOTIOES	AND DEPORTS ON WELLS	0.43330
	AND REPORTS ON WELLS ill or to deepen or reentry to a different reservoir.	6. If Indian, Allottee or Tribe Name
	R PERMIT—" for such proposals	
- COC ATTENDATION TO	TO Such proposals	N/A
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
<u> </u>		- Danasak Carak a 11 *1
1. Type of Well Oil Gas		Desert Spring Unit 8. Well Name and No.
Well Well Other		
2. Name of Operator ANR Production Company		Petes Wash Fed. #1-22
3. Address and Telephone No.		9. API Well No. 013-30 595 43-047-32115
	80201-0749 (303) 573-4476	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey D	()	Wildcat
1280' FWL & 1980' FSL	escription	11. County or Parish, State
Section 22, T10S-R17E	•	The county of Farish, batte
00001011 229 1200 11272		Uintah County, Utah
		
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPOR	II, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
Touch of India	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	X Other Self Certification	Dispose Water
	Statement	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13. Describe Proposed or Completed Operations (Clearly state al	pertinent details, and give pertinent dates, including estimated date of starting	
give subsurface locations and measured and true vertice	al depths for all markers and zones pertinent to this work.)*	
Please he advised that effects	ive December 1, 1991, ANR Production C	company is considered
to be the operator of the above	ve referenced well. This well was pre	ompany is considered
Cotton Petroleum Cornoration	ANR Production Company is responsibl	o under the terms and
conditions of the lease for the	ne operations conducted upon the lease	ed lands. Bond
coverage is provided by ANR Pr	roduction Company, Nationwide Oil & Ga	s Rond #CO_0001
coverage is provided by Allicia	oddet for company, Natronwide off a da	5 Dona #60-0001.
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A.M	OIL GAS 8 MILLTON	14. 14. 14. 14. 14. 14. 14. 14. 14. 14.
E CONTRACTOR OF THE CONTRACTOR		
14. I hereby certify that the foregoing is pure and correct		
Schooled Burn	(da Regulatory Analyst	12/31/91
Signed / Well Cheffell	Tide	Date
(This space for Federal or State office uses	ASSISTANT DISTRICT	FEB 2 7 1992
Approved by	Title MANAGER MINICS 21 C	Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(November 1983) (Formerly 9-331) Page 1983) DEPARTMEN F T BUREAU OF LAND M	HE INTERIOR verse side)	UTU-43356
SUNDRY NOTICES AND (Do not use this form for proposals to drill or to Use "APPLICATION FOR PERM	REPORTS ON WELLS deepen or plug back to a different reservoir. (IT-" for such proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL CAS OTHER		7. UNIT AGREEMENT NAME
WELL WELL (X) OTHER 2. NAME OF OPERATOR		8. FARM OR LEASE NAME
Cochrane Resources, Inc.		Petes Wash Fed.
3. ADDRESS OF OPERATOR P.O. Box 1656 Roosevelt, Uta	h 84066	1-22
4. LOCATION OF WELL (Report location clearly and in acco See also space 17 below.) At surface	rdance with any State requirements.	10. FIELD AND POOL, OR WILDCAT
•		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
		Sec 22, T10S, R17E
14. PERMIT NO. 15. ELEVATIONS 43-0133-0595	(Show whether DF, RT, GR, etc.)	Duchesne Utah
18. Check Appropriate Box	To Indicate Nature of Notice, Report, or	Other Data
NOTICE OF INTENTION TO:	SCBSE	QUENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CV	SING WATER SHUT-OFF	BEPAIRING WELL
PRACTURE TREAT MULTIPLE COMPLETED ABANDON*	TE PRACTURE TREATMENT SHOOTING OR ACIDIZING	ALTERING CASING ABANDONMENT*
REPAIR WELL CHANGE PLANS	(Other)	
(Other) 17. DESCRIBE PROPOSED OR COMPLETES OPERATIONS (Clearly proposed work. If well is directionally drilled, give	Completion or Recom	ts of multiple completion on Well pletion Report and Log form.)
Please be advised that the subsection of the sub	bject well was sol d to A.N	N.R., effective
		PRECISIVE DIN MAR 0 6 1992
		DIVISION C.F OIL GAS & MINING
18. I hereby certify that the foregoing is true and correct	***	1 5 1000
SIGNED Hette Olen	Vice President	March 5, 1992
(This space for Federal or State office use)		
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE

*See Instructions on Reverse Side

	ANGE HORKSHEET Routing: 1- LCR 7-LCR 1		
	1 documentation received by the division regarding this change. 2-DTS 775 3-VLC 4-RJF V		
	e of Operator (well sold)		
e ope	rator of the well(s) listed below has changed (EFFECTIVE DATE: 12-1-91)		
(new	operator) ANR PRODUCTION COMPANY FROM (former operator) COCHRANE RESOURCES, INC. Column		
	(attach additional page if needed):		
ame: ame: ame: ame:	ETE'S WASH 1-22/MVRD API: 43-013-30595 Entity: 1360 Sec_22 Twp 10SRng 17E Lease Type: U-043356 API: Entity: Sec_Twp_Rng_Lease Type: Lease	FRATO	R CHANGE DOCUMENTATION
P1.	(Rule R615-8-10) Sundry or other <u>legal</u> documentation has been received from <u>former</u> operator (Attach to this form). (fig. 2-20-92) (field 3-6-92)		
£2.	(Rule R615-8-10) Sundry or other <u>legal</u> documentation has been received from <u>new</u> operator (Attach to this form). (Pard 1-3-92)		
(The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) If yes, show company file number:		
((For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.		
ef 5. (Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (3-9-92-)		
¥6. (Cardex file has been updated for each well listed above. (3-9-927		
¥7.1	Hell file labels have been updated for each well listed above. (3-9-927)		
CF 8. (Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (3-9-92)		
fg. 1	A folder has been set up for the Operator Change file, and a copy of this page has been solaced there for reference during routing and processing of the original documents.		

TOR CHANGE WORKSHEET (CONTINUED) Initia Cach item when completed. Write N/A in tem is not applicable.
TY REVIEW 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes no) (If entity assignments were changed, attach copies of Form 6, Entity Action Form). ## 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.
VERIFICATION (Fee wells only) N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. N/A 2. A copy of this form has been placed in the new and former operators' bond files. 3. The former operator has requested a release of liability from their bond (yes/no) 1. Today's date
E INTEREST OWNER NOTIFICATION RESPONSIBILITY (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated
ING RUM 1. All attachments to this form have been microfilmed. Date: March 11 1982.
NG 1. <u>Copies</u> of all attachments to this form have been filed in each well file. 2. The <u>original</u> of this form and the <u>original</u> attachments have been filed in the Operator Change file.
ENTS 920309 Bbm/Vernal Approved 2-27-92.

/34-35

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED

Budget	Bureau	No. I	004-0135
	res: M		

Other Well Gas Other Steel Name and No. Pettes Mash Federal \$1-22 Partie of Operator Pettes Mash Federal \$1-22 Pettes Mash Federal \$1-22 Pettes Mash Federal \$1-22 Pettes Mash Federal \$1-22 Pettes Mash Federal \$1-22 Pettes Mash Federal \$1-22 Pettes Mash Federal \$1-22 Pettes Mash Federal \$1-22 Pettes Mash Federal \$1-22 Pettes Mash Federal \$1-22 Pettes Mash Federal \$1-22 Pettes Mash Pederal \$1-22 Pettes Mash Pederal \$1-22 Pettes Mash Pederal \$1-22 Pettes Mash Pederal \$1-22 Pettes Pettes Mash Pederal \$1-22 Pettes	SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals N/A	e (nation)
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Approved by Title Date	(This space for Federal of State Office use)	

THE COASTAL CORPORATION

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (REPLACE CASING & RECOMPLETE) NE/SW SECTION 22-T10S-R17È LITTLE DESERT PROSPECT DUCHESNE COUNTY, UTAH

WI: 100% ANR AFE: 63888

TD: 6710'

CSG: 5-1/2" @ 6710' PBTD: 6701' PERFS: 5467'-6662' (Wasatch)

CWC(M\$): \$479.0

- 12/30/91 Prep to POOH w/tbq. MIRU Western Well Service rig #12. Blew down well. DC: \$3,600 TC: \$3,600
- TOOH w/tbg. Kill well. ND tree, NU BOP. Unable to release pkr. RU WL. RIH w/jet cutter. Cut tbg @ 10,090' (WL depth). POOH w/tbg, LD 12/31/91 DC: \$5,335 TC: \$8,935
- 1/1/92 Run csg inspection log. Kill well. Fin LD 2-3/8" tbg. RIH w/CIBP. Set plug @ 10,040'. Fill csg w/14 bbls. Csg would not hold pump at a rate of 3.8 BPM @ 700 psi. Apparent csg leak. Run CBL from 9700' to 9100'. Tools would not record properly due to gas interference -possible csg leak 9090' to 9126'. DC: \$7,382 TC: \$16,317
- SD, WO log evaluation. Run csg inspection log from 9400' to 1500'. Possible csg leak @ 9180'. Bad csg from 4150' to 4425'. Possible leak @ approx. 4400'. RlH w/103 jts tbg. DC: \$12,300 TC: \$28,6171/2/92
- SD, WO log evaluation. POOH w/103 jts 2-7/8" tbg. RIH w/CBL logging tools. Log from 9400' to surface. Bond log showed free pipe except where the expected hole is at 4400'. RIH w/40 jts tbg. 1/3/92 DC: \$10,693 TC: \$39,310
- SI, WO orders. RIH w/62 jts 2-7/8" tbg. POOH LD 102 jts. No tbg in hole. RD power swivel. ND BOP, NU tree. RD & MO pulling unit. 1/4/92 Drop from report until further activity. TC: \$44,440 DC: \$5,130
- 1/28/92 Prep to PU 2-3/8" tbg. MIRU Pool rig #237. ND WH, NU 11" 5000# dbl gate BOP's. DC: \$7,318 TC: \$51,758
- NU BOP. Prep to spear csg. Tally and PU 2-3/8" tbg. TIH to 10,040'. RU Howco. Circ well. Set cmt Plug #1 from 10,040'-9702' 1/29/92 w/25 sx Premium Plus w/.1% HR5, 15.6 ppg, 1.18 yield. Pull to 9100'. Set Plug #2 from 9100'-8762' w/25 sx same. LD all 2-3/8" tbg (hole taking fluid). Rig repair, drum clutch. ND BOP. Weld on 4-1/2" stub. Pull to 158,000# to come off of slips. Drop to 125,000# when free of csg slips. Pipe apparently parted down hole, jumped and parted again below slips falling down hole 10'. Left 3" x 1" slip segment in hole (not on top of fish). At time csg parted, had pulled 1' above csg hanger and were prep to remove slips. DC: \$12,287 TC: \$64,045
- Prep to circ @ 2880'. PU spear on 4-1/2" csg & latch 4-1/2" csg @ 10' BGL. LD 115 jts & 1 14' parted jt of 4-1/2" csg (total tally 1/30/92 4425'). Note: Last 9 jts & parted jt had scale on outside of csg. Evidence of severe corrosion (internal & external) on those jts. Btm of parted jt had scale plugged in it and was crimped in. RU to run 3-1/2" DP. Changed rams to 3-1/2". PU 7-7/8" RR bit, b. sub, jars & DC on 3-1/2" DP to 2880'. No tight spots while TIH. Plan to stage in hole to TOF. MW 8.5, VIS 40. DC: \$10,937 TC: \$74,982

PRODUCTION REPORT

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (REPLACE CASING & RECOMPLETE)
NE/SW SECTION 22-T10S-R17E
LITTLE DESERT PROSPECT
DUCHESNE COUNTY, UTAH
WI: 100% ANR AFE: 63888

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- 1/31/92 POH w/7-7/8" bit, prep to dress off TOF. Circ @ 2880', got scale & cuttings back, full returns. TIH to 3069', hit bridge, RU power swivel and stripping hd. Repair shaker, wash & ream from 3069' to 4425' (TOF). Circ & cond @ 4425'. (Lost total 40 bbls mud last 24 hr.) Full returns now. RD power swivel & stripping head. POH w/bit. MW 8.8, VIS 52. DC: \$9.000 TC: \$83.982
- 2/1/92 Cleanout cellar. Prep to cmt 8-5/8" annulus. Trip out w/bit. PU 7-5/8" cripple tooth rotary shoe extended 3-1/2 feet below 6-1/2" slightly concave mill. PU oil jars, bumper sub & TIH on 3-1/2" DP. Tag fish @ 4425'. RU stripping head & power swivel. Work over fish and mill 4425'-4430'. Circ @ 4430'. POH w/shoe & mill. LD tools. Cleanout cellar. 8-5/8" csg very loose. Will attempt to run 1" tbg and cmt same to sfc. MW 8.8, VIS 50. DC: \$10,309 TC: \$94,291
- 2/2/92 Prep to jar on fish and rerun freepoint w/string shot. Finish cleaning cellar. RU Howco. Run 35' 1" tbg. Unable to get deeper. Pump clean w/wtr. Cmt w/75 sx Thixotropic w/12% Cal Seal & 3% CaCl₂, cmt to sfc. WOC & change out drill line. TIH w/7-3/8" extension overshot w/4-3/8" grapple. Tag @ 4430'. Catch, jar and work csg. Run 1-3/4" sinker bar to 7500' w/Dialog. Run freepoint @ 6020', 100% stretch, 54% torque; @ 6399', stretch 60%, torque 0; @ 6499', stretch 0, torque 0; @ 4911', stretch 100%, torque 100%. MW 8.8, VIS 50. DC: \$10,453

 TC: \$104,744
- 2/3/92 Wash & ream @ 5480' to CO to TOF. Jar on fish @ 4430' w/160,000#. RU Dialog, ran freepoint: 100% free @ 6010' (DP) w/60% torque, 60% free @ 6283' (DP) w/o torque. Back off @ 6010', work fish free. POH & LD 15.8' piece and 41 jt 4-1/2" csg. PU 7-7/8" bit, bumper sub, oil jar & 8 DC's on 3-1/2" DP. Tag bridge @ 5460'. RU power swivel & stripping head. Wash & ream 5460'-5480'. Note: 15.8' piece and 2-jt 4-1/2" csg below it were only slightly corroded internally, no external corrosion. Remaining jts recovered were in good condition. MW 9.3, VIS 52. DC: \$7,055 TC: \$111,799
- 2/4/92

 TIH w/7-3/8" OS. Wash & ream 5460'-5550'. Circ out heavy shale. Level derrick and replace hose on power swivel. Wash & ream 5550'-6010'. Tight spots 5920'-5990' (top of 4-1/2" csg 6010'). Circ & cond hole. POOH w/7-7/8" bit. Tight spot 5990'-5920'. PU 7-3/8" OS w/4-1/2" grapple, BS, jars, 10 DC's & acc. sub. DC: \$7,428

 TC: \$119,227
- Digging out cellar, prep to install new csg head. TIH w/7-3/8" OS, tag bridge @ 5368'. RU stripping head & power swivel, wash & ream from 5368'-5390'. Circ @ 5390'. Wash to 5420', made connection. Attempt to circ, press up to 2500 psi and swivel hose failed (pipe plugged). Attempted to pull 2 stds to unplug DP, pusher had pipe rams closed pulled DP into closed pipe ram and PU BOP stack 2', parting the weld on the 8-5/8" csg head. POH w/OS and BHA wet string found cutting plugged inside of OS & jar. Dug out cellar, found weld on 8-5/8" csg head had failed. RU air jack hammer to dig out cmt from cellar. MW 9.3, VIS 51, WL 18.6, PV 19, YP 17, 7% SOL, pH 12, CL 12500, CA tr, GELS 7, 10" 19, CAKE 2. DC: \$7,179

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (REPLACE CASING & RECOMPLETE)
NE/SW SECTION 22-T10S-R17E
LITTLE DESERT PROSPECT
DUCHESNE COUNTY, UTAH
WI: 100% ANR AFE: 63888

- 2/6/92 Circ @ 5900', prep to cond hole w/DAP. Dig out cellar w/jack hammer, cut 8-5/8", weld on reconditioned csg head. Test flange to 200 psi. NU 11" x 5000# BOP, install new rams. PU 7-5/8" cripple tooth shoe w/4-1/2", b. jar, oil jar, 10 DC's, accel jar on 3-1/2" DP and TIH to 5375'. RU power swivel & stripping head. Wash and ream from 5375' to 5900'. Circ @ 5900'. Prep to change mud system to DAPP mud system. MW 9.3, VIS 53. DC: \$9,540 TC: \$135,946
- Jarring on fish @ 6010', prep to attempt back off below TOF. Circ & cond mud w/8 ppb DAP. Circ until large amounts of shale cleaned up. Catch TOF @ 6010', work & jar on fish up to 180,000#. Had 31" stretch, est free below 8000'. RU Dialog. Ran 1-3/4" core head, could not get below TOF @ 6010'. Found core head w/deep scars. Run 3/4" x 1-1/2" spear to 6010', had scar on btm of 3/4". Ran 1" CL on btm 1" stop collar, unable to get below 6010', scars on btm jarring on fish w/180,000#. Ran 1-1/2" impression block, showed 4-1/2" csg lip (?) (1/4" deep x 3/8" wide). About 3/8" from edge of I.B. MW 9.1, VIS 36, WL 15.2, PV 8, YP 7, pH 9.5, CL 13000, GELS 6, 10" 14, CAKE 2, MBT 8 LB/BBL DAP. DC: \$6,232 TC: \$142.178
- 2/8/92 RU power swivel. Jarring @ 6010' w/180,000#. Attempt blind backoff unsuccessful. POH w/7-5/8" OS. PU 7-5/8" rotary shoe & TIH. RU power swivel. DC: \$8,031 TC: \$150,209
- 2/9/92 Jarring @ 6015' w/180,000#. RU power swivel. Mill csg from 6010' to 6015'. POH w/rotary shoe. PU 7-3/8" OS. TIH. Catch fish @ 6015'. TIH w/wireline. Unable to work below 6068'. DC: \$12,203 TC: \$162,412
- Jarring on fish, prep to rerun freepoint. Jar on fish w/180,000#. RU Dialog. Ran 1-3/4" core bbl w/sinker bar, jars, CL. Work thru bridges @ 6068' & 6123'. Pull out of rope socket, left tools in hole. Rerun 1-3/4" tools & tag fish @ 6170'. RD Dialog, RU Otis WL. Ran 1-3/4" bailer, worked from 6616' to 6629', could not work deeper. Rec form cuttings. RU Nowcam. Ran 1-1/4" coiled tbg w/jetting hd, wash from 6658' to 6693', unable to wash deeper. RD Nowcam. Jar on fish to 180,000#. Ran freepoint to 6672' PBTD; @ 6650' 32% tension, no torque; @ 6405' 60% tension, no torque; @ 6250' 84% tension, no torque. Jar on fish 2-hr to 180,000#. MW 9.3, VIS 40, WL 18.6, PV 11, YP 15, pH 9.0, CL 11500, GELS 8, 10" 15. DC: \$18,873

 TC: \$181,285
- 2/11/92 POH w/4-1/2" fish. Jar on fish w/180,000#. Run freepoint, tag bridge @ 6840'; @ 6792' 60% tension, no torque; @ 6729' 80% tension, no torque; @ 6690' 74% tension, no torque; @ 6250' 100% tension, torque 32%. Ran 650 grm string shot & shot collar @ 6713'. Jar on fish w/200,000# w/no success. SD 3-hr to repair clutch. Jar on fish w/200,000# w/no success. RU WL. Ran 1-3/4" OD, 1044 grm severing tool & shot @ 6713'. Had 190,000# on csg, pipe came free. POH w/fish w/±7000# extra weight. (Est. TOF @ 6713' WL). MW 9.3, VIS 40, WL 18.6, PV 11, YP 15, pH 9.5, GELS 8, 10" 15, CAKE 3, MBT 7.5 LB/BBL DAP. DC: \$26,797 TC: \$208,082

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (REPLACE CASING & RECOMPLETE) NE/SW SECTION 22-T10S-R17E LITTLE DESERT PROSPECT DUCHESNE COUNTY, UTAH WI: 100% ANR AFE: 63888

- LDDP. POH w/fish. LD 18 jts + 31' cut jt 4-1/2" csg (total 716'). 2/12/92 Rec collar, collar was split halfway up on one side & belled out to 6-3/4" OD. PU 7-7/8" bit & tag fill @ 6045'. RU strip hd, power swivel. Wash & ream 6045' to 6713' (WL), 6026' (tbg). Circ & condhole @ 6713'. Short trip - 14 stds, hole clean. Circ & cond hole @ 6713'. MW 9.1, VIS 40, WL 21.4, PV 6, YP 8, pH 8.5, CL 9000, GELS 3, 10" 8, CAKE 3, MBT 6.5 LB/BBL DAP. DC: \$10,074 TC: \$218,156
- RD workover rig. LD 3-1/2" DP & 18 4-3/4" DC's. RU to run 5-1/2" csg, change to 5-1/2" rams. Ran 154 jts 5-1/2" 17# J-55 LT&C csg (6720'), FS @ 6710', FC @ 6671'. Circ & cond hole. Cmt w/Howco. Pump 20 BFW, 30 bbls Superflush, 20 BFW; LEAD: 505 sx Hifill w/l pps Chpseal + .3% HR-7 (11 ppg, yield 3.89 CF/sx). Follow w/1500 sx 50-50 Poz, 2% gel, 10% salt, .6% HA-24, .2% CFR-3, 1 pps Chpseal, 1/4 pps Flocele (14.1 ppg, yield 1.29). Bump plug w/3% KCl to 2500#. Release pressure, OK. Job complete @ 11:00 p.m., 2/12/92. Had 100 bbl (124 sx) cmt returns. Full returns throughout. Set slips w/full 2/13/92 bbl (124 sx) cmt returns. Full returns throughout. Set slips w/full string weight 100,000#. ND 11" BOP's. Made final cut. DC: \$99.059 TC: \$317,215
- 2/14/92 Clean location. NU 11" \times 7-1/16" 5000# Barton Head. Clean pits and rig down. Release rig @ 11:00 a.m. Returned - 173 jts and 2 pieces 4-1/2" csg to R.W. Jones; 5-1/2 jts new 5-1/2" csg returned to Coastal yard; 11" Bracken Head returned to Coastal yard. DC: \$12,385 TC: \$329,600
- 2/17/92 MIRU CU.
- 2/18/92 RIH w/tbg & mill. MIRU Welltech rig #247. PU & RIH w/4-3/4" mill & 75 jts 2-3/8" tbg. DC: \$4,400 TC: \$334,000
- Prep to run CBL. Finish RIH w/tbg & mill. Tag cmt @ 6674'. RU power swivel. Drld cmt to FC @ 6683' & cmt to 6701'. Circ hole 2/19/92
- 2/20/92 Prep to acidize perfs. MIRU Cutters WLS. Ran CBL-CCL-GR log from LTD @ 6685' to 1600' w/1000 psi on csg. Good bond. TOC @ 2240'. PT csg to 5000 psi, OK. Perf Wasatch zones 5467'-6662' (17 holes) w/4" csg gun. RD WL. RIH w/172 jts 2-3/8" tbg. DC: \$9,700 TC: \$346,960
- 2/21/92 Prep to swab. Well on vacuum this a.m. Finish RIH w/tbg to 6676'. RU Western. Spot 28 bbls 15% HCl across perfs. Pull tbg to 5407'. ND BOP, NU WH. Breakdown perfs w/43 bbls 15% HCl + 44 BS's. Breakdown @ 3800 psi. ATR @ 6.8 BPM @ 3400 psi. Ball off to 5000 psi. Surge off balls, finish flush. ISIP 1400 psi, 15 min 750 psi. RD Western. Flwd back 28 BW in 1 hr. Made 4 swab runs, rec 57 BW. (Total 85 bbls rec.) Sand line parted on 5th run. NU BOP. POH w/tbg. Rec 50' sd line & swab. RIH w/tbg, landed tbg @ 5407'. NU WH. SDFN. DC: \$17,110 TC: \$364,070
- 2/22/92 Prep to swab. SICP vac, SITP vac. FL @ 2000'. Made 6 swab runs. Swbd dry, rec 35 BW. Made 1 swab run/hr beginning @ 11:30 a.m. 1st hr rec 2 BW, FL @ 4500', scattered. 2nd hr rec 1/2 BW, FL @ 4500', scattered. Very slight gas show ahead of swab. 3rd hr rec 1 BW, FL @ 4800', scattered. Very sl gas show ahead of swab. 4th hr - same as 3rd hr, rec 40 BW today, tot load rec 125 bbls. 129 BLW to rec. DC: \$1,750 TC: \$365,820

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (REPLACE CASING & RECOMPLETE)
NE/SW SECTION 22-T10S-R17E
LITTLE DESERT PROSPECT
DUCHESNE COUNTY, UTAH
WI: 100% ANR AFE: 63888

- 2/23/92 Swab after acid breakdown. SITP 10 psi, SICP vac. IFL @ 4000', rec 14 bbl. 115 BLTR.

 DC: \$850 TC: \$366.670
- 2/24/92 Swab after acid breakdown. SITP 25 psi, SICP 25 psi. IFL @ 4000', rec 20 BW. At 7:00 a.m., 2/24/92, SITP 50 psi, SICP 50 psi. DC: \$850 TC: \$367,520
- 2/25/92 Swabbing after breakdown. SICP 50 psi, SITP 50 psi. FL @ 5000', rec 1 BW. Very slight gas show ahead of swab. DC: \$850 TC: \$358,370
- 2/26/92 Swabbing. SITP 50 psi, SICP 50 psi. FL @ 5000'. Made 1 swab run, rec 1 BW. Very slight gas show ahead of swab.

 DC: \$720 TC: \$369,090
- 2/27/92 Shut-in. SICP 50 psi, SITP 50 psi. Made 1 swab run, FL @ 5000'. Rec 1 BW. Very slight gas show ahead of swab. RD & MO Welltech Rig #247. 92 bbls to recover. DC: \$4,130 TC: \$373,220
- 2/28/92 Shut-in, WO frac. SITP 40 psi, SICP 60 psi.
- 2/29-3/2/92 SI, WO frac. Will frac tomorrow, 3/3/92.
- 3/3/92 SI, WO frac. Will frac today, 3/3/92.
- 3/4/92 Flwg back after frac. Set & filled frac tanks & $\rm CO_2$ vessels. MIRU Halliburton frac equip. Fraced well w/100,100 gal gel 3% KCl wtr w/30% $\rm CO_2$ + 193,000# 20/40 sand. IR 30 BPM @ 3200 psi, ISIP 1870 psi, 15 min 1830 psi. SI 3-1/2 hrs. RD Halliburton. SICP 1500 psi, SITP 1500 psi. Start flow back @ 1:40 p.m. on 18/64" chk. Flwg 900 MCFD $\rm CO_2$, FTP 900 psi, CP 1000 psi, 18/64" chk, 20 BWPH. 1780 BLTR. DC: \$73,310 TC: \$446,530
- 3/5/92 Flow back after frac. Flwg 600 MCFD $\mathrm{CO_2},$ FTP 550 psi, CP 910 psi, 18/64" chk, 100 BWPD.
- 3/6/92 Flow back after frac. Flwg 500 MCFD $\rm CO_2$, FTP 350 psi, CP 800 psi, 18/64" chk, 70-80 BWPD.
- 3/7/92 Flwg back well. Flwd 100 MCF, 70 BW, FTP 60 psi, CP 610 psi, 18/64" chk.
- 3/8/92 Flow rate TSTM. Well logged off. MIRU Basin Swab Service, repair choke. IFL 3000', FFL 2500'. Swbd 44 bbls in 8 runs, last 3 runs very foamy, well kicked off. DC: \$1,185 TC: \$447,715
- 3/9/92 Flwg back to tank, rate TSTM. Swbd 100 BW, FTP 10 psi, CP 625 psi, 18/64" chk.
- 3/10/92 Prep to swab. SITP 150 psi, SICP 650 psi. Blew well down in 10 min. FL @ 2875' on first swab run. Swbd & flwd 106 BW w/FFL @ 3575'. Final CP 70 psi. SIFN. This a.m., 3/10/92, SITP 440 psi, SICP 490 psi. Blew down in 7 min. DC: \$1,350 TC: \$449,065
- 3/11/92 Swab well after frac. Swab well 16 runs, rec 85 BLW. IFL 3000', FFL 4000'. Good blow after each swab run. Final CP 300 psi. This a.m., 3/11/92, SITP 360 psi, SICP 320 psi. DC: \$1,450 TC: \$450,515

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (REPLACE CASING & RECOMPLETE)
NE/SW SECTION 22-T10S-R17E
LITTLE DESERT PROSPECT
DUCHESNE COUNTY, UTAH
WI: 100% ANR AFE: 63888

- 3/12/92 Swab well. Blew well down in 7 min. FL 1st swab run @ 3375'. Made 23 runs from 5375' recovering 67 BLW. FFL @ 3675', FCP 200 psi. SIFN. This a.m., SITP 250 psi, SICP 225 psi. DC: \$1,450 TC: \$451,965
- 3/13/92 Swab well. SITP 250 psi, SICP 225 psi. Blow down well in 6 min. Gas will not burn. Swab 44 BW in 24 runs. IFL @ 3875', FFL @ 4375'. DC: \$1,450 TC: \$453,415
- 3/14/92 RDMO swab unit. SI waiting on orders. SITP 160 psi, SICP 160 psi. Blow down well in 4 min. Gas will not burn. Will drop from report until further activity.

 DC: \$1,850 TC: \$455,265

CHRONOLOGICAL HISTORY

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PETES WASH FEDERAL #1-22 (REPLACE CASING & RECOMPLETE)
NE/SW SECTION 22-T10S-R17E
LITTLE DESERT PROSPECT
DUCHESNE COUNTY, UTAH
WI: 100% ANR AFE: 63888
TD: 6710'
CSG: 5-1/2" @ 6710' PBTD: 6701'
PERFS: 5467'-6662' (Wasatch)

CWC(M\$): \$479.0

- 12/30/91 Prep to POOH w/tbg. MIRU Western Well Service rig #12. Blew down well.

 DC: \$3,600 TC: \$3.600
- 12/31/91 TOOH w/tbg. Kill well. ND tree, NU BOP. Unable to release pkr. RU WL. RIH w/jet cutter. Cut tbg @ 10,090' (WL depth). POOH w/tbg, LD tbg.

 DC: \$5,335 TC: \$8.935
- Run csg inspection log. Kill well. Fin LD 2-3/8" tbg. RIH w/CIBP. Set plug @ 10.040'. Fill csg w/14 bbls. Csg would not hold pump at a rate of 3.8 BPM @ 700 psi. Apparent csg leak. Run CBL from 9700' to 9100'. Tools would not record properly due to gas interference possible csg leak 9090' to 9126'.

 DC: \$7,382 TC: \$16.317
- SD, WO log evaluation. Run csg inspection log from 9400' to 1500'. Possible csg leak @ 9180'. Bad csg from 4150' to 4425'. Possible leak @ approx. 4400'. RIH w/103 jts tbg. DC: \$12,300 TC: \$28,617
- 1/3/92 SD, WO log evaluation. POOH w/103 jts 2-7/8" tbg. RIH w/CBL logging tools. Log from 9400' to surface. Bond log showed free pipe except where the expected hole is at 4400'. RIH w/40 jts tbg. DC: \$10,693 TC: \$39,310
- 1/4/92 SI, WO orders. RIH w/62 jts 2-7/8" tbg. POOH LD 102 jts. No tbg in hole. RD power swivel. ND BOP, NU tree. RD & MO pulling unit. Drop from report until further activity. DC: \$5,130 TC: \$44,440
- 1/28/92 Prep to PU 2-3/8" tbg. MIRU Pool rig #237. ND WH, NU 11" 5000# dbl gate BOP's.
 DC: \$7,318 TC: \$51.758
- NU BOP. Prep to spear csg. Tally and PU 2-3/8" tbg. TIH to 10,040'. RU Howco. Circ well. Set cmt Plug #1 from 10,040'-9702' w/25 sx Premium Plus w/.1% HR5, 15.6 ppg, 1.18 yield. Pull to 9100'. Set Plug #2 from 9100'-8762' w/25 sx same. LD all 2-3/8" tbg (hole taking fluid). Rig repair, drum clutch. ND BOP. Weld on 4-1/2" stub. Pull to 158,000# to come off of slips. Drop to 125,000# when free of csg slips. Pipe apparently parted down hole, jumped and parted again below slips falling down hole 10'. Left 3" x 1" slip segment in hole (not on top of fish). At time csg parted, had pulled 1' above csg hanger and were prep to remove slips. DC: \$12,287 TC: \$64,045
- 1/30/92 Prep to circ @ 2880'. PU spear on 4-1/2" csg & latch 4-1/2" csg @ 10' BGL. LD 115 jts & 1 14' parted jt of 4-1/2" csg (total tally 4425'). Note: Last 9 jts & parted jt had scale on outside of csg. Evidence of severe corrosion (internal & external) on those jts. Btm of parted jt had scale plugged in it and was crimped in. RU to run 3-1/2" DP. Changed rams to 3-1/2". PU 7-7/8" RR bit, b. sub, jars & DC on 3-1/2" DP to 2880'. No tight spots while TIH. Plan to stage in hole to TOF. MW 8.5, VIS 40. DC: \$10,937 TC: \$74,982

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (REPLACE CASING & RECOMPLETE)
NE/SW SECTION 22-T10S-R17E
LITTLE DESERT PROSPECT
DUCHESNE COUNTY, UTAH
WI: 100% ANR AFE: 63888

- 1/31/92 POH w/7-7/8" bit, prep to dress off TOF. Circ @ 2880', got scale & cuttings back, full returns. TIH to 3069', hit bridge, RU power swivel and stripping hd. Repair shaker, wash & ream from 3069' to 4425' (TOF). Circ & cond @ 4425'. (Lost total 40 bbls mud last 24 hr.) Full returns now. RD power swivel & stripping head. POH w/bit. MW 8.8, VIS 52. DC: \$9,000 TC: \$83.982
- Cleanout cellar. Prep to cmt 8-5/8" annulus. Trip out w/bit. PU 7-5/8" cripple tooth rotary shoe extended 3-1/2 feet below 6-1/2" slightly concave mill. PU oil jars, bumper sub & TIH on 3-1/2" DP. Tag fish @ 4425'. RU stripping head & power swivel. Work over fish and mill 4425'-4430'. Circ @ 4430'. POH w/shoe & mill. LD tools. Cleanout cellar. 8-5/8" csg very loose. Will attempt to run l" tbg and cmt same to sfc. MW 8.8, VIS 50. DC: \$10,309 TC: \$94,291
- Prep to jar on fish and rerun freepoint w/string shot. Finish cleaning cellar. RU Howco. Run 35' 1" tbg. Unable to get deeper. Pump clean w/wtr. Cmt w/75 sx Thixotropic w/12% Cal Seal & 3% CaCl₂, cmt to sfc. WOC & change out drill line. TIH w/7-3/8" extension overshot w/4-3/8" grapple. Tay @ 4430'. Catch, jar and work csg. Run 1-3/4" sinker bar to 7500' w/Dialog. Run freepoint @ 6020', 100% stretch, 54% torque; @ 6399', stretch 60%, torque 0; @ 6499', stretch 0, torque 0; @ 4911', stretch 100%, torque 100%. MW 8.8, VIS 50. DC: \$10,453

 TC: \$104,744
- Wash & ream @ 5480' to CO to TOF. Jar on fish @ 4430' w/160,000#. RU Dialog, ran freepoint: 100% free @ 6010' (DP) w/60% torque, 60% free @ 6283' (DP) w/o torque. Back off @ 6010', work fish free. POH & LD 15.8' piece and 41 jt 4-1/2" csg. PU 7-7/8" bit, bumper sub, oil jar & 8 DC's on 3-1/2" DP. Tag bridge @ 5460'. RU power swivel & stripping head. Wash & ream 5460'-5480'. Note: 15.8' piece and 2-jt 4-1/2" csg below it were only slightly corroded internally, no external corrosion. Remaining jts recovered were in good condition. MW 9.3, VIS 52. DC: \$7,055 TC: \$111.799
- 2/4/92

 TIH w/7-3/8" OS. Wash & ream 5460'-5550'. Circ out heavy shale. Level derrick and replace hose on power swivel. Wash & ream 5550'-6010'. Tight spots 5920'-5990' (top of 4-1/2" csg 6010'). Circ & cond hole. POOH w/7-7/8" bit. Tight spot 5990'-5920'. PU 7-3/8" OS w/4-1/2" grapple, BS, jars, 10 DC's & acc. sub. DC: \$7,428

 TC: \$119,227
- Digging out cellar, prep to install new csg head. TIH w/7-3/8" OS, tag bridge @ 5368'. RU stripping head & power swivel, wash & ream from 5368'-5390'. Circ @ 5390'. Wash to 5420', made connection. Attempt to circ, press up to 2500 psi and swivel hose failed (pipe plugged). Attempted to pull 2 stds to unplug DP, pusher had pipe rams closed pulled DP into closed pipe ram and PU BOP stack 2', parting the weld on the 8-5/8" csg head. POH w/OS and BHA wet string found cutting plugged inside of US & Jar. Dug out cellar, found weld on 8-5/8" csg head had failed. RU air jack hammer to dig out cmt from cellar. MW 9.3, VIS 51, WL 18.6, PV 19, YP 17, 7% SOL, PH 12, CL 12500, CA tr, GELS 7, 10" 19, CAKE 2. DC: \$7,179

 TC: \$126.406

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (REPLACE CASING & RECOMPLETE)
NE/SW SECTION 22-T10S-R17E
LITTLE DESERT PROSPECT
DUCHESNE COUNTY, UTAH
WI: 100% ANR AFE: 63888

- Circ @ 5900', prep to cond hole w/DAP. Dig out cellar w/jack hammer, cut 8-5/8", weld on reconditioned csg head. Test flange to 200 psi. NU 11" x 5000# BOP, install new rams. PU 7-5/8" cripple tooth snoe w/4-1/2", b. jar, oil jar, 10 DC's, accel jar on 3-1/2" DP and TIH to 5375'. RU power swivel & stripping head. Wash and ream from 5375' to 5900'. Circ @ 5900'. Prep to change mud system to DAPP mud system. MW 9.3, VIS 53. DC: \$9.540 TC: \$135.946
- Jarring on fish @ 6010', prep to attempt back off below TOF. Circ & cond mud w/8 ppb DAP. Circ until large amounts of shale cleaned up. Catch TOF @ 6010', work & jar on fish up to 180,000#. Had 31" stretch. est free below 8000'. RU Dialog. Ran 1-3/4" core head, could not get below TOF @ 6010'. Found core head w/deep scars. Run 3/4" x 1-1/2" spear to 6010', had scar on btm of 3/4". Ran 1" CL on btm 1" stop collar, unable to get below 6010'. scars on btm jarring on fish w/180,000#. Ran 1-1/2" impression block, showed 4-1/2" csg lip (?) (1/4" deep x 3/8" wide). About 3/8" from edge of I.B. MW 9.1, VIS 36, WL 15.2, PV 8, YP 7, pH 9.5, CL 13000, GELS 6, 10" 14, CAKE 2. MBT 8 LB/BBL DAP. DC: \$6,232

 TC: \$142,178
- 2/8/92 RU power swivel. Jarring @ 6010' w/180,000#. Attempt blind backoff unsuccessful. POH w/7-5/8" OS. PU 7-5/8" rotary shoe & TIH. RU power swivel. DC: \$8,031 TC: \$150.209
- 2/9/92 Jarring @ 6015' w/180,000#. RU power swivel. Mill csg from 6010' to 6015'. POH w/rotary shoe. PU 7-3/8" OS. TIH. Catch fish @ 6015'. TIH w/wireline. Unable to work below 6068'. DC: \$12,203 TC: \$162.412
- Jarring on fish, prep to rerun freepoint. Jar on fish w/180,000#. RU Dialog. Ran 1-3/4" core bbl w/sinker bar, jars, CL. Work thru bridges @ 6068' & 6123'. Pull out of rope socket, left tools in hole. Rerun 1-3/4" tools & tag fish @ 6170'. RD Dialog, RU Otis WL. Ran 1-3/4" bailer, worked from 6616' to 6629', could not work deeper. Rec form cuttings. RU Nowcam. Ran 1-1/4" coiled tbg w/jetting hd, wash from 6658' to 6693', unable to wash deeper. RD Nowcam. Jar on fish to 180,000#. Ran freepoint to 6672' PBTD; @ 6650' 32% tension, no torque; @ 6405' 60% tension, no torque; @ 6250' 84% tension, no torque. Jar on fish 2-hr to 180,000#. MW 9.3, VIS 40, WL 18.6, PV 11, YP 15, pH 9.0, CL 11500, GELS 8, 10" 15. DC: \$18,873
- 2/11/92 POH w/4-1/2" fish. Jar on fish w/180,000#. Run freepoint, tag bridge @ 6840'; @ 6792' 60% tension, no torque; @ 6729' 80% tension, no torque; @ 6690' 74% tension, no torque; @ 6250' 100% tension, torque 32%. Ran 650 grm string shot & shot collar @ 6713'. Jar on fish w/200,000# w/no success. SD 3-hr to repair clutch. Jar on fish w/200,000# w/no success. RU WL. Ran 1-3/4" OD, 1044 grm severing tool & shot @ 6713'. Had 190,000# on csg, pipe came free. POH w/fish w/±7000# extra weight. (Est. TOF @ 6713' WL). MW 9.3, VIS 40, WL 18.6, PV 11, YP 15, pH 9.5, GELS 8, 10" 15, CAKE 3, MBT 7.5 LB/BBL DAP. DC: \$26,797 TC: \$208.082

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (REPLACE CASING & RECOMPLETE)
NE/SW SECTION 22-T10S-R17E
LITTLE DESERT PROSPECT
DUCHESNE COUNTY. UTAH
WI: 100% ANR AFE: 63888

- 2/12/92 LDDP. POH w/fish. LD 18 jts + 31' cut jt 4-1/2" csg (total 716'). Rec collar, collar was split halfway up on one side & belled out to 6-3/4" OD. PU 7-7/8" bit & tag fill @ 6045'. RU strip hd. power swivel. Wash & ream 6045' to 6713' (WL), 6026' (tbg). Circ & cond hole @ 6713'. Short trip 14 stds. hole clean. Circ & cond hole @ 6713'. MW 9.1, VIS 40. WL 21.4, PV 6, YP 8, pH 8.5, CL 9000, GELS 3, 10" 8, CAKE 3, MBT 6.5 LB/BBL DAP. DC: \$10,074 TC: \$218.156
- 2/13/92 RD workover rig. LD 3-1/2" DP & 18 4-3/4" DC's. RU to run 5-1/2" csg, change to 5-1/2" rams. Ran 154 jts 5-1/2" 17# J-55 LT&C csg (6720'), FS @ 6710', FC @ 6671'. Circ & cond hole. Cmt w/Howco. Pump 20 BFW, 30 bbls Superflush, 20 BFW: LEAD: 505 sx HiFill w/l pps Chpseal + .3% HR-7 (11 ppg, yield 3.89 CF/sx). Follow w/1500 sx 50-50 Poz, 2% gei, i0% salt, .6% HA-24, .2% CFR-3, 1 pps Chpseal, 1/4 pps Flocele (14.1 ppg, yield 1.29). Bump plug w/3% KCl to 2500#. Release pressure, OK. Job complete @ 11:00 p.m., 2/12/92. Had 100 bbl (124 sx) cmt returns. Full returns throughout. Set slips w/full string weight 100,000#. ND 11" BOP's. Made final cut. DC: \$99,059
- 2/14/92 Clean location. NU 11" x 7-1/16" 5000# Barton Head. Clean pits and rig down. Release rig @ 11:00 a.m. Returned 173 jts and 2 pieces 4-1/2" csg to R.W. Jones; 5-1/2 jts new 5-1/2" csg returned to Coastal yard; 11" Bracken Head returned to Coastal yard. DC: \$12,385 TC: \$329.600
- 2/17/92 MIRU CU.
- 2/18/92 RIH w/tbg & mill. MIRU Welltech rig #247. PU & RIH w/4-3/4" mill & 75 jts 2-3/8" tbg. DC: \$4,400 TC: \$334,000
- 2/19/92 Prep to run CBL. Finish RIH w/tbg & mill. Tag cmt @ 6674'. RU power swivel. Drld cmt to FC @ 6683' & cmt to 6701'. Circ hole w/160 bbls 3% KCl wtr. POH w/tbg & mill. DC: \$3,260 TC: \$337,260
- 2/20/92 Prep to acidize perfs. MIRU Cutters WLS. Ran CBL-CCL-GR log from LTD @ 6685' to 1600' w/1000 psi on csg. Good bond. TOC @ 2240'. PT csg to 5000 psi, OK. Perf Wasatch zones 5467'-6662' (17 holes) w/4" csg gun. RD WL. RIH w/172 jts 2-3/8" tbg. DC: \$9,700 TC: \$346,960
- Prep to swab. Well on vacuum this a.m. Finish RIH w/tbg to 6676'. RU Western. Spot 28 bbls 15% HCl across perfs. Pull tbg to 5407'. ND BOP, NU WH. Breakdown perfs w/43 bbls 15% HCl + 44 BS's. Breakdown @ 3800 psi. ATR @ 6.8 BPM @ 3400 psi. Ball off to 5000 psi. Surge off balls, finish flush. ISIP 1400 psi, 15 min 750 psi. RD Western. Flwd back 28 BW in 1 hr. Made 4 swab runs, rec 57 BW. (Total 85 bbls rec.) Sand line parted on 5th run. NU BOP. POH w/tbg. Rec 50' sd line & swab. RIH w/tbg, landed tbg @ 5407'. NU WH. SDFN.
 DC: \$17,110 TC: \$364.070
- 2/22/92 Prep to swab. SICP vac, SITP vac. FL @ 2000'. Made 6 swab runs. Swbd dry, rec 35 BW. Made 1 swab run/hr beginning @ 11:30 a.m. 1st hr rec 2 BW, FL @ 4500', scattered. 2nd hr rec 1/2 BW, FL @ 4500', scattered. Very slight gas show ahead of swab. 3rd hr rec 1 BW, FL @ 4800', scattered. Very sl gas show ahead of swab. 4th hr same as 3rd hr, rec 40 BW today, tot load rec 125 bbls. 129 BLW to rec. DC: \$1,750 TC: \$365,820

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (REPLACE CASING & RECOMPLETE)
NE/SW SECTION 22-T10S-R17E
LITTLE DESERT PROSPECT
DUCHESNE COUNTY, UTAH
WI: 100% ANR AFE: 63888

- 2/23/92 Swab after acid breakdown. SITP 10 psi, SICP vac. IFL @ 4000', rec 14 bbl. 115 BLTR. DC: \$850 TC: \$366.670
- 2/24/92 Swab after acid breakdown. SITP 25 psi, SICP 25 psi. IFL @ 4000', rec 20 BW. At 7:00 a.m., 2/24/92, SITP 50 psi, SICP 50 psi. DC: \$850 TC: \$367,520
- 2/25/92 Swabbing after breakdown. SICP 50 psi, SITP 50 psi. FL @ 5000', rec 1 BW. Very slight gas show ahead of swab. DC: \$850 TC: \$368.370
- 2/26/92 Swabbing. SITP 50 psi, SICP 50 psi. FL @ 5000'. Made 1 swab run, rec 1 BW. Very slight gas show ahead of swab. DC: \$720 TC: \$369,090
- 2/27/92 Shut-in. SICP 50 psi, SITP 50 psi. Made 1 swab run, FL @ 5000'. Rec 1 BW. Very slight gas show ahead of swab. RD & MO Welltech Rig #247. 92 bbls to recover. DC: \$4,130 TC: \$373.220
- 2/28/92 Shut-in, WO frac. SITP 40 psi, SICP 60 psi.
- 2/29-3/2/92 SI, WO frac. Will frac tomorrow, 3/3/92.
- 3/3/92 SI, WO frac. Will frac today, 3/3/92.
- 3/4/92 Flwg back after frac. Set & filled frac tanks & CO2 vessels. MIRU Halliburton frac equip. Fraced well w/100,100 gal gel 3% KCl wtr w/30% CO_2 + 193,000# 20/40 sand. IR 30 BPM @ 3200 psi, ISIP 1870 psi, 15 min 1830 psi. SI 3-1/2 hrs. RD Halliburton. SICP 1500 psi, SITP 1500 psi. Start flow back @ 1:40 p.m. on 18/64" chk. Flwg 900 MCFD CO_2 , FTP 900 psi, CP 1000 psi, 18/64" chk, 20 BWPH. 1780 BLTR. DC: \$73,310 TC: \$446,530
- 3/5/92 Flow back after frac. Flwg 600 MCFD $\mathrm{CO_2},\ \mathrm{FTP}\ 550\ \mathrm{psi}.\ \mathrm{CP}\ 910\ \mathrm{psi},\ 18/64"\ \mathrm{chk},\ 100\ \mathrm{BWPD}.$
- 3/6/92 Flow back after frac. Flwg 500 MCFD $\rm CO_2$, FTP 350 psi, CP 800 psi, 18/64 chk, 70-80 BWPD.
- 3/7/92 Flwg back well. Flwd 100 MCF, 70 BW, FTP 60 psi, CP 610 psi, 18/64" chk.
- 3/8/92 Flow rate TSTM. Well logged off. MIRU Basin Swab Service, repair choke. IFL 3000', FFL 2500'. Swbd 44 bbls in 8 runs, last 3 runs very foamy, well kicked off. DC: \$1,185 TC: \$447.715
- 3/9/92 F1wg back to tank, rate TSTM. Swbd 100 BW, FTP 10 psi, CP 625 psi, 18/64" chk.
- 3/10/92 Prep to swab. SITP 150 psi, SICP 650 psi. Blew well down in 10 min. FL @ 2875' on first swab run. Swbd & flwd 106 BW w/FFL @ 3575'. Final CP 70 psi. SIFN. This a.m., 3/10/92, SITP 440 psi, SICP 490 psi. Blew down in 7 min. DC: \$1,350 TC: \$449,065
- 3/11/92 Swab well after frac. Swab well 16 runs, rec 85 BLW. IFL 3000', FFL 4000'. Good blow after each swab run. Final CP 300 psi. This a.m., 3/11/92, SITP 360 psi, SICP 320 psi. DC: \$1,450 TC: \$450,515

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (REPLACE CASING & RECOMPLETE)
NE/SW SECTION 22-T10S-R17E
LITTLE DESERT PROSPECT
DUCHESNE COUNTY, UTAH
WI: 100% ANR AFE: 63888

- 3/12/92 Swab well. Blew well down in 7 min. FL lst swab run @ 3375'. Made 23 runs from 5375' recovering 67 BLW. FFL @ 3675', FCP 200 psi. SIFN. This a.m., SITP 250 psi, SICP 225 psi. DC: \$1,450 TC: \$451,965
- 3/13/92 Swab well. SITP 250 psi, SICP 225 psi. Blow down well in 6 min. Gas will not burn. Swab 44 BW in 24 runs. IFL 3 3875', FFL 3 4375'. DC: S1,450 TC: S453,415
- 3/14/92 RDMO swab unit. SI waiting on orders. SITP 160 psi, SICP 160 psi. Blow down well in 4 min. Gas will not burn. Will drop from report until further activity.

 DC: \$1.850 TC: \$455,265

PLUG AND ABANDON PROCEDURE

PETES WASH FED. #1-22 Section 22-T10S-R17E Uintah County, Utah

WELL DATA

Location:

1980' FSL & 1280' FWL, Sec. 22, T10S, R17E

Elevation:

5850' GR, 5865' KB

Total Depth:

11,398'

PBTD:

6701'

CASING

Surface:

13-3/8" H-40 48# CSA 200', cmt w/ 225 sx.

Intermediate:

8-5/8" K-55 24 & 32# CSA 2890', cmt w/660 sx Class "G"

Production:

5-1/2" J-55 17# LT&C CSA 6710', cmt w/ 2005 sx

Performance Properties:

			Capacity	Burst	Collapse	Tension
<u>Description</u>	ID	<u>Drift</u>	(BPF)	(PSI)	<u>(PSI)</u>	(#)
5-1/2" J-55 17#	4.892"	4.767"	.0232	5320	4910	247,000
2-3/8" J-55 EUE	1.995"	1.901"	.00389	7700	8100	71,730

Depth Reference:

Schlumberger FDC-CNL dated 12/7/81.

Perforations:

5467,5475,5493,5525,5929,5935, 5041,6031,6039,6053,6058,6071

5941,6031,6039,6053,6058,6071,

6148,6154,6160,6658,6626.

(16 holes)

Present Status:

Shut In.

PLUGGING PROCEDURE

- 1. MIRU Completion Unit. ND well head. NU BOP.
- 2. TOOH with 2 3/8" tubing. Rig up wireline company. TIH with CI Cmt Ret on wireline. Set retainer at 5200'. RU to perforate. Perforate 4 squeeze holes at 2200'. Perforate 4 squeeze holes at 300'.
- 3. TIH with tubing. Sting into cmt ret. Cmt squeeze Wasatch perforations 5467' to 6662' with 250 sxs Cl "G" cmt. Maximum allowable pressure is 1500 psi. Unsting from retainer and dump any excess cmt on top of retainer (minimum of 10 sxs).
- 4. POOH with tubing. TIH with tubing and Cmt Retainer to 1800'. Set retainer at 1800'.
- 5. Cmt squeeze perforations at 2200' with 200 sxs cl "G" cmt. Dump excess cmt on top of retainer (minimum of 10 sxs).
- 6. POOH with tubing to surface. Circ cmt through perforations at 300' to surface with 130 sxs cl "G" cmt filling the 5-1/2" casing and the 5-1/2" x 8-5/8" annulus.
- 7. ND BOPE, cut off casing. Erect dry hole marker showing company name, locations and lease number. RD MO CU.

DKD:dkd

PETES WASH FED #1-22 SEC 22-T105 RITE DUCKESNE CO., UTAH ELEV. 5850' GL 5865' KB

TOP DOWN CMT JOB W/ 75 sxs. 85/8" x 133/8" ANNULUS.

> 1336"48# H-40 CSA 200' CMT w/ 225 sx.

TOP OF CEMENT_

23/8" TUBING @ 5407'

85/8"24" 32" K-55 C5A 2890' CMT w/ 660 sx.

WASATCH ____

PERFORATIONS: 5467;75;93;5525;5929;35;4 6031;39;53;58;71;6148;54;6 6658;62.

PBTD 6701'
TOP OF 41/2" CSQ
@ 6713"

51/2" 17 # J-55 CSA 6710" CMT w/ 2005 sx.

MESA VERDE ____

CEMENT PLUG 8762'-9100' 25 SX PREMIUN

CIBP @ 10,040' TOC @ 9702' 25sx PREMIUM

PACKER @ 10,104. TOP OF 236" TB4 @ 10,090'.
PERFORATIONS: 10,180;83;86;89;92;96;98

10,180;83;86;89;92;96;98 10,200;02;04;06;08;10;12;1

PBTD 11,212' TD 11,398' 41/2" 11.6 #N-80 CSA 11.398' CMT w/ 900 sx Form 3160-4 (November 1983) (formerly 9-330)

UNITED STATES

SUBMIT IN DUPLICATE.

DEPARTMENT OF THE INTERIOR

(See other instructions on reverse side) 5. LEASE DESIGNATION

Form approved. Budget Buresu No. 1004-0137 Expires August 31, 1985

 co_2

WELL CO		SUREAU OF	LAND	MANAGEME	ENT		reverse side)	บ-433	
Is. TYPE OF WE	OMPLETIO	N OR RE	COMP	LETION	REPORT	AND L	.OG *	6. IF INDIA	N. ALLOTTER OR TRIBE NAM
		WELL WI	SLI. XX	DRY [Other				REEMENT NAME
NEW [N/A	
WELL	OVER X	EN BA	CK	DIFF. EENVR.	Other				LEASE NAME
2. NAME OF OPER				· -				Petes	Wash Federal
	duction Co	mpany				-		9. WELL N	0.
3. ADDRESS OF UP		5			10)151	VIZI	(sn)	1-22	
P.O. Bo		Denver, C	0 8	0201-0749	(C08)	2575=44A	acilli .	_1	AND POOL, OR WILDCAT
At surface	1280' F	WL and 19	80' F	ruance with as SL	Φ.	-		Wildc	
					/JU	L 0 7 19	92	OR ARE	. R., M., ON BLOCK AND BURYE A
At top prod. it	nterval reported	below Sam	e as	apove					
At total depth	Same as	above			DI\	ISION O		Secti	on 22, T10S, R17
			<u></u>	14. PERMIT NO	OIL G	AGA MIN	MG	12. COUNTY	
			ŀ	43-013-	30595			Duche	
5. DATE SPUDDED	16. DATE T.D.	REACHED 17.	DATE CO	MPL. (Ready)		8. ELEVATIOS	B (DF, RKB,	RT. GR. ETC.)*	
9/3/81	12/7/	81 3/	7/92 I	Recomplet	ion#		GR, 586	-	
O. TOTAL DEPTH, MD	4 TVD 21. P	LUG, BACK T.D.,	ED & TVD		TIPLE COMP	23.	INTERVALS DRILLED BY	ROTARY TO	OLS CABLE TOOLS
11,398'		6701'		1	-		DKILLED BY	SFC-TI	
4. PRODUCING INTE	CRVAL(8), OF TH	IS COMPLETION-	TOP. BO	TTOM, NAME (MD AND TYD)	•		<u> </u>	25. WAS DIRECTIONAL SURVEY MADE
	52' Wasai	*							No
6. TYPE ELECTRIC	AND OTHER LOGI	BRUN		2-12-	92				27. WAS WELL CORED
FDC-CNI.	CBL-CCL-GI	CASI	26 /	ISP, AC	145+10	CBL			No
8.			CASING	RECORD (Res	ort all string	se set in serii)		110
CABING BIZE	WEIGHT, LI	J./FT. DEPT	H SET ()		I.E SIZE		CEMENTING	RECORD	AMOUNT PULLED
13-3/8"	48#		200	1	7-1/2"	225	sx C1 "(311	
8-5/8''	24 & 32	2#	2,890	<u>' 12</u>	2-1/4"	660 s	3X		
5-1/2"	17 <u>#</u>		6,710	1	7-7/8"	2005 s	3X		
9.						<u> </u>			
eize	TOP (MD)	LINER REC				30.		TUBING REC	ORD
	TOP (AD)	BOTTOM (MI	BAC	RS CEMENTS	SCREEN (1		IZE -	DEPTH SET (1	KD) PACEER SET (MD)
		-					3/8"	5407 '	
. PERFORATION RE	cons (Interval,	size and numbe	_		82.	1 0 0 0			
	llowing de	pths w/4"	csg		\	TERVAL (MD			T SQUEEZE, ETC.
reri d to	50001			6148'	I DEFINIT	TERVAL (MD	, ,	HOUNT AND KI	ND OF MATERIAL CRED
5467'	5929 '	6039'				1 07001			
5467' 5475 '	5929 ' 5935 '	6053		6154'	10,040	'-9702'		x cement	
5467' 5475' 5493'	5929' 5935' 5941'	6053 ' 6058 '		6154' 6160'	10,040 9,100	'-8762'	25 s	x cement	plug
5467' 5475 '	5929 ' 5935 '	6053		6154' 6160' 6658'	10,040 9,100 5,467	'-8762' '-6662'	25 s 43 b	x cement bls 15%	plug HCL + 44 B.S.'s
5467' 5475' 5493'	5929' 5935' 5941'	6053 ' 6058 '	·	6154' 6160' 6658' 6662'	10,040 9,100 5,467 5,467	'-8762'	25 s 43 b 100,	x cement bls 15% 000 gals	plug HCL + 44 B.S.'s 3% KCL wtr w/30
5467' 5475' 5493' 5525'	5929' 5935' 5941' 6031'	6053 ' 6058 '	D (Flow	6154' 6160' 6658' 6662'	10,040 9,100 5,467 5,467	'-8762' '-6662' '-6662'	25 s 43 b 100, & 19	x cement bls 15% 000 gals 3,000# 20	plug GCL + 44 B.S.'s 3% KCL wtr w/30 0/40 sand
5467' 5475' 5493' 5525' 3.* 3/7/92	5929' 5935' 5941' 6031'	6053' 6058' 6071'	D (Flow)	6154' 6160' 6658' 6662'	10,040 9,100 5,467 5,467	'-8762' '-6662' '-6662'	25 s 43 b 100, & 19	x cement bls 15% 000 gals 3,000# 20	plug HCL + 44 B.S.'s 3% KCL wtr w/30 0/40 sand STATUS (Producing or status (Producing or
5467' 5475' 5493' 5525' 3.* 3/7/92 TE OF TEST	5929' 5935' 5941' 6031'	6053' 6058' 6071' DUCTION METHO OWING	12E 1	6154' 6160' 6658' 6662' PROI ing, gas lift, pi	10,040 9,100 5,467 5,467	'-8762' '-6662' '-6662'	25 s 43 b 100, & 19	x cement bls 15% 000 gals 3,000# 20	plug ECL + 44 B.S.'s 3% KCL wtr w/30 0/40 sand ETATUS (Producing or strin) Shut-in*
5467' 5475' 5493' 5525' 3.* 3/7/92 3/7/92	5929' 5935' 5941' 6031'	6053' 6058' 6071' DUCTION METHO OWING	1ZE	6154' 6160' 6658' 6662' PROI	10,040 9,100 5,467 5,467 OVERTION	'-8762' '-6662' '-6662'	25 s 43 b 100, & 19	x cement bls 15%; 000 gals 3,000# 2	plug HCL + 44 B.S.'s 3% KCL wtr w/30 0/40 sand BTATUS (Producing or st-in) Shut-in* L. GAS-OIL BATIO
5467' 5475' 5493' 5525' 3.* TE FIRST PRODUCT 3/7/92 TE OF TEST 3/7/92 OW. TURNO PROS.	5929' 5935' 5941' 6031' FIL HOURS TESTED 24	6053' 6058' 6071' DUCTION METHO OWING CHORE 8 18/64'	12E	6154' 6160' 6658' 6662' PROI ing, gas lift, pi	10,040 9,100 5,467 5,467 O'CTION	'-8762' '-6662' '-6662' end type of	25 s 43 b 100, & 19	x cement bls 15% 000 gals 3,000# 2 WATER-BE 70	plug ECL + 44 B.S.'s 3% KCL wtr w/30 0/40 sand ETATUS (Producing or strin) Shut-in*
5467' 5475' 5493' 5525' 3.* TR FIRST PRODUCT 3/7/92 TR OF TEST 3/7/92 OW. TURING PRESS. 60	5929' 5935' 5941' 6031' FION PRO F1. HOURS TESTED 24 CASING PRESS 610	6053' 6058' 6071' DUCTION METHO OWING CHOER 8 18/64' URE CALCULAT	IZE	6154' 6160' 6658' 6662' PROI ING. Des lift, propon. For	10,040 9,100 5,467 5,467 5,467 OIL—BEL 0	'-8762' '-6662' '-6662' end type of	25 s 43 b 100, & 19 pump)	x cement bls 15% 000 gals 3,000# 20 WATER—BE 70	plug ECL + 44 B.S.'s 3% KCL wtr w/30 0/40 sand ETATUB (Producing or strin) Shut-in* L. GAS-OIL BATIO N/A OIL GRAVITT-API (CORR.)
5467' 5475' 5493' 5525' 3.* TE FIRST PRODUCT 3/7/92 TE OF TEST 3/7/92 OW. TUBING PROS. 60	5929' 5935' 5941' 6031' FION PRO F1. HOURS TESTED 24 CASING PRESS 610	6053' 6058' 6071' DUCTION METHO OWING CHOER 8 18/64' URE CALCULAT	IZE	6154' 6160' 6658' 6662' PROI ING. GOS LIST. POR FEET PERIOD	10,040 9,100 5,467 5,467 5,467 OIL—BEL 0	'-8762' '-6662' '-6662' end type of	25 s 43 b 100, & 19 pump) -MCF. 100	x cement bls 15% 000 gals 3,000# 20 WATER—BE 70	plug ECL + 44 B.S.'s 3% KCL wtr w/30 0/40 sand ETATUB (Producing or strin) Shut-in* L. GAS-OIL BATIO N/A OIL GRAVITT-API (CORE.) N/A
5467' 5475' 5493' 5525' 3.* TE FIRST PRODUCT 3/7/92 TE OF TEST 3/7/92 OW. TURING PRODUCT 60 Flared	5929' 5935' 5941' 6031' FION PRO F1. HOURS TESTED 24 CABING PRESS 610 AB (Sold, used for	6053' 6058' 6071' DUCTION METHO OWING CHOER 8 18/64' URE CALCULAT	IZE	6154' 6160' 6658' 6662' PROI ING. GOS LIST. POR FEET PERIOD	10,040 9,100 5,467 5,467 5,467 OIL—BEL 0	'-8762' '-6662' '-6662' end type of	25 s 43 b 100, & 19 pump) -MCF. 100	x cement bls 15% 000 gals 3,000# 20 WATER—BB 70 -MBL	plug ECL + 44 B.S.'s 3% KCL wtr w/30 0/40 sand ETATUS (Producing or strin) Shut-in* L. GAS-OIL BATIO N/A OIL GRAVITT-API (CORE.) N/A
5467' 5475' 5493' 5525' 3.* TS FIRST PRODUCT 3/7/92 TE OF TEST 3/7/92 OW. TURING PROSE. 60 I. DISPOSITION OF G Flared LIST OF ATTACKS	5929' 5935' 5941' 6031' FION PRO F1. HOURS TESTED 24 CABING PRESS 610 DAB (Sold, used for	6053' 6058' 6071' DUCTION METHO OWING CHOER 8 18/64' URE CALCULAT 24-HOUR	IZE	6154' 6160' 6658' 6662' PROI ING. GOS LIST. POR FEET PERIOD	10,040 9,100 5,467 5,467 5,467 OIL—BEL 0	'-8762' '-6662' '-6662' end type of	25 s 43 b 100, & 19 pump) -MCF. 100	X cement bls 15% 000 gals 3,000# 20 WATER—BB 70HBL. 0	plug ECL + 44 B.S.'s 3% KCL wtr w/30 0/40 sand ETATUS (Producing or strin) Shut-in* L. GAS-OIL BATIO N/A OIL GRAVITT-API (CORE.) N/A
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	NAME	Wasatch	Mesaverde				
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FORMATION						 	

Form 3160-5 June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

		Expires:			
5.	Lease	Designati	on and	Serial	No.

SUNDRY NOTICES A	IND REPORTS ON WELLS	0. If Indian. Allottee or Tribe Name
Do not use this form for proposals to drill Use "APPLICATION FOR	or to deepen or reentry to a different rese PERMIT— for such proposals	ervoir. N/A
SUBMIT I	N TRIPLICATE TOTAL CONTROL	7. If Unit or CA. Agreement Designation
Type or Well Oil Well X Well Other Name of Operator	Mark Silvis	N/A 8. Well Name and No.
ANR Production Company Address and Felephone No.		Pete's Wash Fed. #1-22
P. O. Box 749, Denver, CO 80	201-0749 (303) (303) (303)	43-013-30595 10. Field and Pool. or Exploratory Area
Location of Well (Footage, Sec., T., R., M., or Survey Desc.	ription	Wildcat
Section 22, T10S-R17E		11. County or Parish. State
		Duchesne County, Utah
TYPE OF SUBMISSION	TO INDICATE NATURE OF NOTICE, R	
Notice of Intent	TYPE OF AC	TION
Subsequent Report Final Abandonment Notice 3. Describe Proposed or Completed Operations (Clearly state all pergive subsurface locations and measured and true vertical described in the subsurface locations and measured and true vertical described in the subsurface locations.	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other Tinent details, and give pertinent dates, including estimated date of epiths for all markers and zones pertinent to this work.)*	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) starting any proposed work. If well is directionally drilled.
I hereby certify that the foregoing true and correct	Jan Di-	
(This space for Federal or State office use)	Tide <u>Regulatory</u> Analyst	Date06/02/93
Approved by	Title	
Conditions of approval, if any:		Date

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM	LAPPR	OVED
Budget Burn	eau No.	1004-013
Expires:	March	31, 1993

BUREAU OF LAND MANAGEMENT

5. Lease Designation and Serial No.

U-43356

				SU	NDRY I	NOTIC	ES AN	D F	EPO	RTS	ON W	VELLS	and the same of th	S
Do	not	use	this	form 1	for prop	osals t	o drill o	r to	deep	en or	reent	ry to a	different r	eservoir.
				Use "	APPLIC	ATION	FOR P	ERM	11T—''	for s	such þ	roposa	Is !	

6. If Indian, Allottee or Tribe Name N/A

SUBMIT IN TRIPLICATE JAN 0 5 1994	7. If Unit or CA, Agreement Designation N/A
Oil S Well Other	8. Well Name and No.
2. Name of Operator ANR Production Company OIL, GAS & MINING	Pete's Wash Fed. #1-22
3. Address and Telephone No. P. O. Box 749, Denver, CO 80201-0749 (303) 573-4476	43-013-30595
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	10. Field and Pool, or Exploratory Area Wildcat
1280' FWL & 1980' FSL, Sec. 22-T10S-R17E	11. County or Parish, State
	Duchesne County, Utah
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, BE	PORT OR OTHER DATA

TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Abandonment Change of Plans Recompletion **New Construction** X Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Abandonment Notice Altering Casing Conversion to Injection Other Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7/19/93 RUCU. NU BOP.

7/20/93 Set CICR @ 5200'. Press test to 1500 psi, RIH tbg. Pmp 250 sx Class G (235 sx thru CICR, 15 sx in top CICR). Perf 4 holes @ 2190'. Set CICR @ 1815'. Pmp 200 sx Class G (15 sx on top of CICR). Set 315' surface plug in $5\frac{1}{2}$ ". 8-5/8" X $5\frac{1}{2}$ " csg full. Weld on dry hole marker.

7/21/93 Well P&A'd. RDMOCU. FINAL REPORT.

1 1		
4. I hereby certify that the foregoing is true and correct	Joe Adamski	
Signed M. Servi	Title Env. & Reg. Analyst	Date 12/29/93
(This space for Federal or State office use)		
Approved byConditions/of approval, if any:	Title	Date
<u> </u>		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (P&A) NE/SW SECTION 22-T10S-R17E LITTLE DESERT PROSPECT DUCHESNE COUNTY, UTAH

WI: 100% ANR AFE: 14189

TD: 6710'

CSG: 5-1/2" @ 6710' PBTD: 6701'

PERFS: 5467'-6662' (Wasatch)

7/19/93 Prep to POOH. Move on and RU Welltech Well Service. SITP 300 psi. Blow dn well, ND tree, NU BOP, dig out cellar. Spot circ equipment, SD for weekend. CC: \$3350.

Well dead. POOH w/2-3/8" tbg, LD extra tbg. RU Cutters Wireline. RIH, set CICR at 5200'. Press test to 1500 psi, RIH tbg, est inj rate 4 BPM @ 700 psi. Mix and pump 250 sx G, 235 sx thru CICR, 15 sx on top of CICR. Final rate of pressure 3.5 BPM at 850 psi. POOH tbg, LD extra pipe. RU Cutters. Perf 4 holes at 2190. BD holes 3900 psi. Inj rate 1.3 BPM 3500. RIH w/tbg and CICR, set at 1815. Mix and pmp 200 sx G, left 15 sx on top of CICR, 2 BPM, 1500 psi. POOH, LD extra tbg. Set 315' plug in 5-1/2", 8-5/8" x 5-1/2" csg full. Cut off tbg, weld on dry hole marker. CC: \$20,050.

7/21/93 Well plugged. RDMO Welltech. CC: \$20,400. FINAL REPORT - WELL P&A'd.



COASTAL

FINISH: 1430

WORKOVER [

NO ACCIDENTS THIS DAY

WORK DESCRIPTION

SPRINGS 24-B-9, Plu PIL

! BLOWDOWN WELL

RZG FROM DESERET

CUSTOMER

MAILING ADDRESS CITY, STATE, ZIP

START: 0800

DERRICK MAN: KEITH

FLOOR HAND: NORMAN

FLOOR HAND: SCOTT COOL

OPERATOR:

"HELPER:

SERVICE [

OPERATOR: DERRICKMAN:

FLOORHAND:

FLOORHAND: PUSHER:

TBC:-70

TRAVEL

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MIDTREE

Permit:

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Well lech inc.

COASTAL

CUSTOMER

4735 DAILY WORK REPORT DATE ZO JULY RIG NO: \$55 CUSTOMER'S ORDER NO. NO. LEASE WELL NO. FED 1-22 NO. OF MILES PETES WASH COUNTY STATE LIZNTAH UTAH TUBING RECORDS SIZE DEPTH CO ROD RECORD ROD SUBS SIZE LENGTH NO. SIZE NO. RODS 5/8" 3/4" 7/8" 1" MAKE SIZE NO. EXTENSION QUANTITY PRICE <u>ه ۱۵ ما</u> 14000 111/2 120/DAG 12000

MAILING ADDRESS CITY, STATE, ZIP TRAVEL FINISH: 1830 START: 0700 11% Z: BRUAH SMITH OPERATOR: 112 2 DERRICK MAN: KEITH DANZA Z 11/2 FLOOR HAND: NOCMAN WOLLEY 7 1/1/2 FLOOR HAND: SCATT COOK HELPER: SERVICE [WORKOVER PZA COMPLETION [NO ACCIDENTS THIS DAY ROD PUMP OPERATOR: DERRICKMAN: IN FLOORHAND: OUT FLOORHAND: PUSHER: WORK DESCRIPTION (56 - 0 Unit with Crew: POOH AGSTOS S.N. ITT. N.C. Swabbing: IRIU CITTERS - PER SET CZCR R 5200' RZH WI STZNGFR Extra Labor: Full Time Supervisor: STING IN @SOO FILLANN Plu WESTERN - TEST ANN Travel Time: SOUTEZE Out-Of-Town: 4467-6626 W12505KS G Tong Dies / Slip Dies: CEMENT, LEAUF 10 SKS ON TOP Tongs CICK POOH 4D TO 1800, POOH Rod Stripper Equipment: WI STINGER RIUCUTTERS Blowout Preventer: 1 FKF @ Z190 BREAK PERFS Slip Type Elevators: 3900 ps- 14 BBL/MZN Pump Rod Fishing Tool: INTO SURFACE ASIA DEFSSURED Crew Transportation: TO 500251 1/8 BBL RZH WI Swab Cups CZCR ON TBG. SET@ 2215 Oil Saver Rubbers SAOT CEMENT IBBL FROM Pipe Wiper: CICR STINL IN : SQUEETE Rod Stripper Rubber: PERFS@2190 STENDOUT Pipe Racks: LEAJE 10 SKS ON TOP POOH Circulating Pump: 40 TO 370' DUMP TABLCEMENT Mud Tank: DOOH YTCHOTHS FEET ON BODE Stripper Head RID FLOOR, CUT OFF CSG HD FILE Power Swivel: HOLE CEMENT INSTALL DRY HOLE Third Party Charges: MAKER Fuel: Trucking: **Light Plant:** Other Charges: Permit: Tax: Total

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Mid-Centinent Region

DAILY WORK REPORT FINAL DATE 71 JULY SRIG NO. 505
CUSTOMER'S CONTRACT ORDER NO. NO.

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INVOICE



3535 Briarpark Suite 200 Houston, Texas 77042 (713) 975-1600 Fax (713) 977-2994

ATTN: ACCOUNTS PAYABLE

COASTAL OIL & GAS CORP.

VERNAL, UTAH 84078

F.O. BOX 1148

Please Remit All Payments To:

WellTech, Inc. Mid-Continent Region Lockbox 299572 Houston, Texas 77299-0572

INVOICE NO. 35-635918

INV. DATE

7-23-93

CUSTOMER'S ORDER NO.

LEASE

PETES WASH

WELL NO.

FEDERAL 1-22

NET 30 DAYS FROM DATE OF INVOICE, INTEREST AT RATE OF 1.5% PER MONTH WILL BE CHARGED ON ANY PAST DUE BALANCE. THIS IS AN ANNUAL RATE OF 18%.

		BALANCE. THIS IS AN ANNUAL RATE OF 18%.			
DATE	TICKET #'s	QUANTITY	RATE	AMOUNT	
7-17-93 TO 7-21-93	4734 - 4736 UNIT WITH CREW TRAVEL TIME	19.0 2.5 DAYS	@\$140.00 №\$120.00	\$ 2,660.00 300.00 	

92 1499 0004 000 000 64739 789 8770 296000 My 081293

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED						
Budget Bure	au No. 1004-0135					
Expires:	March 31, 1993					

Lease	Designation	and	Serial	No.

SUNDRY NOTICES	AND REPORTS	S ON WELLS
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Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals

U-43356

6. If Indian. Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation N/A
I. Type of Well Oil S Gas Well Well Other	8. Well Name and No.
2. Name of Operator ANR Production Company	Pete's Wash Fed. #1-22
3. Address and Telephone No. P. O. Box 749, Denver, CO 80201-0749 (303) 573-4476	43-013-30595 10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1280' FWL & 1980' FSL, Sec. 22-T10S-R17E	Wildcat 11. County or Parish, State
	Duchesne County, Utah

12.	CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DA							
	TYPE OF SUBMISSION	TYPE OF ACTION						
	Notice of Intent	X Abandonment	Change of Plans					
	Subsequent Report	Recompletion Plugging Back	New Construction Non-Routine Fracturing					
	Final Abandonment Notice	Casing Repair Altering Casing	Water Shut-Off Conversion to Injection					
		Other	Dispose Water					

Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7/19/93 RUCU. NU BOP.

7/20/93 Set CICR @ 5200'. Press test to 1500 psi, RIH tbg. Pmp 250 sx Class G (235 sx thru CICR, 15 sx in top CICR). Perf 4 holes @ 2190'. Set CICR @ 1815'. Pmp 200 sx Class G (15 sx on top of CICR). Set 315' surface plug in $5\frac{1}{2}$ ". 8-5/8" X $5\frac{1}{2}$ " csg full. Weld on dry hole marker.

7/21/93 Well P&A'd. RDMOCU. FINAL REPORT.



JAN 1 0 1994

DIVISION OF OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct Signed	Joe Adamski Tite Env. & Reg. Analyst	resubmit 1/6/94 w/cmt Date 12/29/93 Vhificity
(This space for Federal or State office use)		(well Tech's report)
Approved by Conditions/of approval, if any:	Title	Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CHRONOLOGICAL HISTORY

PETES WASH FEDERAL #1-22 (P&A) NE/SW SECTION 22-T10S-R17E LITTLE DESERT PROSPECT DUCHESNE COUNTY, UTAH

PAGE 7

WI: 100% ANR AFE: 14189

TD: 6710'

CSG: 5-1/2" @ 6710' PBTD: 6701'

PERFS: 5467'-6662' (Wasatch)

7/19/93 Prep to POOH. Move on and RU Welltech Well Service. SITP 300 psi. Blow dn well, ND tree, NU BOP, dig out cellar. Spot circ equipment, SD for weekend. CC: \$3350.

Well dead. POOH w/2-3/8" tbg, LD extra tbg. RU Cutters Wireline. RIH, set CICR at 5200'. Press test to 1500 psi, RIH tbg, est inj rate 4 BPM @ 700 psi. Mix and pump 250 sx G, 235 sx thru CICR, 15 sx on top of CICR. Final rate of pressure 3.5 BPM at 850 psi. POOH tbg, LD extra pipe. RU Cutters. Perf 4 holes at 2190. BD holes 3900 psi. Inj rate 1.3 BPM 3500. RIH w/tbg and CICR, set at 1815. Mix and pmp 200 sx G, left 15 sx on top of CICR, 2 BPM, 1500 psi. POOH, LD extra tbg. Set 315' plug in 5-1/2", 8-5/8" x 5-1/2" csg full. Cut off tbg, weld on dry hole marker. CC: \$20,050.

7/21/93 Well plugged. RDMO Welltech. CC: \$20,400. FINAL REPORT - WELL P&A'd.